



Your Professional AV Product Guide

2013-14 Edition



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Welcome

Since 1997 IAVI has been putting our customers first. That's why we offer the brands you and your clients love, and why our highly trained sales consultants are so passionate about your success.

The following pages detail the partnerships IAVI shares with the top manufacturers in the Pro AV market. As our product line expands, we're excited to share with you the many choices of quality brands available for your solutions. We strongly believe in the high quality and integrity of the products we carry, and pledge to provide exceptional service and an ever-growing selection of manufacturers and products.

With offices in all time zones to manage all of your needs, our commitment to you is unwavering. As we continue to grow, we are adding expertly trained, devoted sales associates ready to provide a consultative approach to every project you specify.

Earning and keeping your business and trust is our goal. IAVI is proud to call you our customer and looks forward to our continued combined success.

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Hello, we're IAVI. We make buying **Pro AV** simple.

Our distribution philosophy is simple: we strive to be an alternative to the factory without penalizing you, the dealer. We create and maintain positive relationships by providing superior customer service solutions and by offering a wide range of audio visual equipment to professional dealers, installers, integrators and resellers worldwide.

Primary Source for Total Solutions

With nationwide distribution capabilities, no minimum order requirements and a wide selection of hardware and accessories, Dealers can issue just one purchase order for a total solution.

IAVI can serve as a one-stop-shop and warehouse for Dealers with limited inventory space, and multiple brands and categories of product can be purchased on a single purchase order. This saves time and money and eliminates the hassle of trying to accumulate complete solutions from multiple sources.

Stay Informed

Order confirmation and shipment tracking information is automatically provided to your e-mail address, meaning no more chasing the factory for information.

Factory Trained

IAVI has factory trained, highly skilled, knowledgeable Sales Associates ready to assist you in identifying the right solution for your projects.

Project Registration

IAVI's dedicated Registration and Bid Desk saves Dealers the hassle of paperwork and tedious follow-up by working with the manufacturers to register every aspect of each project to obtain the best quote possible.

In most cases, we can provide even lower pricing on projects, protecting Dealers from competitors and freeing them up to concentrate on winning the business.



IAVI is a one-stop-shop for all your Pro AV needs.

By supplying an extensive product mix, IAVI makes it possible for industry professionals to obtain every component necessary to complete any AV project, from the simplest display installation to outfitting an entire arena!

IAVI stocks the widest range of projectors, flat panels displays, digital signage solutions, and projection technology accessories. It's simple. IAVI provides the accessories required to ensure optimal performance and increase product reliability. A complete line of accessories for all brands and models make IAVI the only resource for all of your Pro AV needs.

Digital Signage

IAVI is committed to providing imaginative and powerful Digital Signage Solutions. In recent years, several factors have combined to make digital signage a more compelling, eye-catching, and affordable display medium than ever before, contributing to its widespread adoption.

As simple-to-use and affordable Digital Signage becomes more ubiquitous in retail, restaurants, education and corporate environments, Systems Integrators and AV Installers have an open invitation to an added revenue channel for their pre-existing businesses. IAVI offers the most affordable and cost effective solutions tailored to customers' specific business needs.

Projector Screens

Projector screens are available in specialized projection materials designed to enhance video quality. IAVI stocks a variety of screens from fixed, electric, wall-mounted, portable and tripod styles that are made for front or rear projection applications.

Replacement Lamps

IAVI boasts a reputation as a number one source for projector replacement lamps. By maintaining an inventory of over 750 different replacement lamp models, IAVI is the preferred choice among dealers, resellers, and installers.

Cables & Mounts

From video and data cables to audio cables, IAVI can meet your unique cable requirements for specific projects by stocking and supplying a wide variety of cables.

Mounts for projectors and flat panel displays are always available to provide an excellent means of achieving the optimal image size and viewing angles. High margin extenders and other mounting accessories are attractive additions to most solutions, increasing your profits.

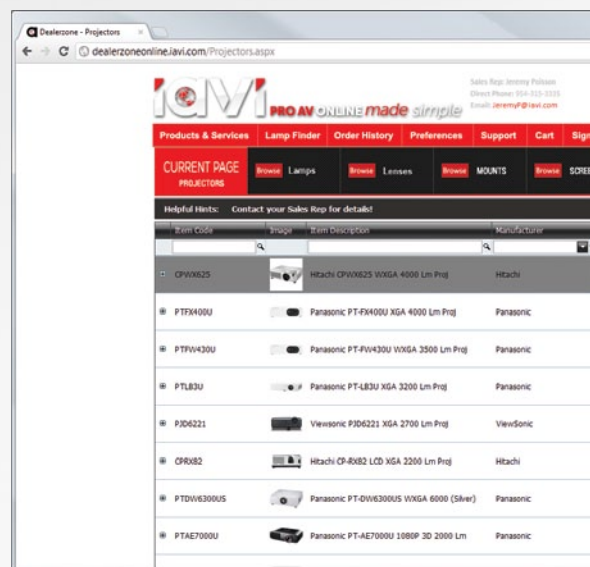




Dealer Zone

Conveniently order online 24/7,
365 days a year!

- Obtain custom pricing, specifically to fit your company's needs.
- Receive instant email confirmation following your order to verify your purchase. We'll even give you a link for tracking to the carrier's website.
- Shipped and unshipped orders available to you on your Order History page - sorted alphabetically or by order number.
- Receive an invoice notification immediately after your order is processed.
- Always have a dedicated IAVI Sales Rep attend to any and all of your Pro AV needs in addition to our easy to use online application!



Save some time, buy online!

Because we know you're thinking about Pro AV 24/7, just like us, we've carefully crafted a fast, powerful, and user-friendly system for ordering Pro AV products directly from the convenience of your web browser.

Obtain custom pricing, specifically to fit your company's needs!

With the introduction of Dealer Zone, you now have an app for convenient and easy online ordering *and* your always dedicated IAVI Sales Rep ready to attend to any and all of your Pro AV needs!

Dealer Zone is innovative, convenient to use, always available and provides fully customized pricing to fit your business needs. Dealer Zone is designed to offer you an instant view of real-time stock availability and access to our complete product-line.

Get started today! Visit iavi.com/dealers

Registration & Bid Desk

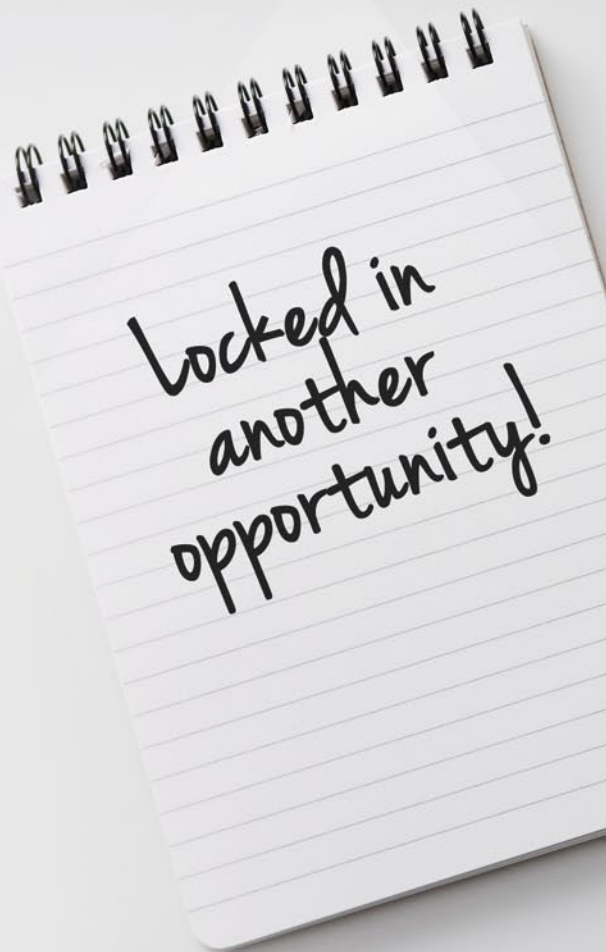
Paperwork. Tracking. Time.

IAVI's dedicated Registration & Bid Desk will save you the hassle of paperwork and tedious follow-up, and offer you the luxury of time. Make sure you get the best quote possible for your projects. Our Registration Specialist is an expert at the myriad of procedures the various manufacturers require and will register every aspect of each project, protecting you and freeing you up to concentrate on your business.

Give one person the details of your project, and we'll work with the manufacturers to complete your registration. With an expeditious turnaround **your competition will be locked out.**

IAVI can handle it all, initial submission and follow up so you can focus your efforts on winning the business with your amazing solutions.

For more information call your dedicated IAVI Sales Representative at **888.999.6564** or email **Registration@iavi.com**.





AVAILABLE MODELS
ALL MODELS FEATURE WUXGA RESOLUTION AND 6000 ANSI LUMENS

PT-DZ6710U Geometric Adjustment / HD-SDI Signal Compatibility
PT-DZ6710UL Geometric Adjustment / HD-SDI Signal Compatibility / Lens Not Included
PT-DZ6700U

Capturing attention with brilliant pictures and diverse image-rendering capabilities



Panasonic PT-DZ6710U/L

WUXGA Installation Projector

The PT-DZ6710U is a 1-chip DLP projector that features a high brightness of 6,000 lumens. New, unique functions also abound, such as the RGB Booster, which provides vivid color reproduction and high brightness, and the Auto Cleaning Filter, which eliminates the need for filter maintenance for a full 10,000 hours. With a built-in Multi-Screen Support System and features such as Edge Blending, this all-around projector offers first-rate performance under a wide variety of conditions.

- Geometric Adjustment for projecting images onto curved screens (PT-DZ6710U/L only)
- Detail Clarity Processor, exclusive to Panasonic, realistically reproduces even fine textures
- System Daylight View 2 produces sharp, crisp images
- Auto Cleaning Filter reduces maintenance hassles for 10,000 hours
- Dual Lamp System supports 24/7 operation and prevents image interruptions even if a lamp burns out
- Liquid Cooling System allows use in temperatures as high as 113° F
- Sealed Optical Block prevents the adverse effects caused by dust for greater operating stability
- Multi-Screen Support System includes Edge Blending to seamlessly connect multiple screens

RESOLUTION	WUXGA (1920 x 1200)
BRIGHTNESS	6,000 ANSI Lumens
CONTRAST RATIO	2,000:1
DISPLAY TECH	DLP
WEIGHT	35.3 lbs
WARRANTY	3 Year Parts and Labor
LAMP PART #	ET-LAD60
SPECIAL FEATURES	HD-SDI signal compatibility, Powered Vertical/Horizontal Lens Shift Function, Optional Lenses



Panasonic PT-DZ770 Series

Installation Projectors

Panasonic's unique optical engine in the PT-DZ770 Series projector produces 8,200 lm or 7,000 lm of brightness and high-quality images. This combines with a host of terminals and advanced management functions to provide high reliability and hassle-free maintenance. Ideal for a wide variety of applications, from education and business to stage performance.



- Flexible Installation
- Dual-Lamp System Prevents Image Interruptions
- Eco Filter that Needs No Maintenance for up to 12,000 Hours

PT-DZ770UK WUXGA / 7000 Lm / Black Model
PT-DZ770ULK WUXGA / 7000 Lm / Black Model / Lens Not Included
PT-DW740US WXGA / 7000 Lm / White Model
PT-DW740ULS WXGA / 7000 Lm / White Model / Lens Not Included
PT-DX810US WUXGA / 8200 Lm / White Model
PT-DX810ULS WXGA / 8200 Lm / White Model / Lens Not Included

REPLACEMENT LAMP ET-LAD60A



Panasonic PT-DZ680 Series

Installation Projectors

Panasonic PT-DZ680 Series 1-chip DLP™ projectors, featuring a dual-lamp system, are compact but powerful. The RGB Booster ensures vivid, colorful images, and the original Eco Filter eliminates the need for filter replacement for up to 12,000 hours. A host of terminals and advanced management functions provides enhanced system flexibility. Ideal for a wide variety of applications, from education and business to museums.



- Flexible Installation
- Dual-Lamp System Prevents Image Interruptions
- Eco Filter that Needs No Maintenance for up to 12,000 Hours

PT-DZ680U WUXGA / 6000 Lm / Lens Included (Available in White or Black)
PT-DZ680UL WUXGA / 6000 Lm / Lens Not Included (Available in White or Black)
PT-DW640U WXGA / 6000 Lm / Lens Included (Available in White or Black)
PT-DW640UL WXGA / 6000 Lm / Lens Not Included (Available in White or Black)
PT-DX610U XGA / 6500 Lm / Lens Included (Available in White or Black)
PT-DX610UL XGA / 6500 Lm / Lens Not Included (Available in White or Black)

REPLACEMENT LAMP ET-LAD60A



Panasonic PT-EZ570 Series

Installation Projectors

The PT-EZ570 Series projectors provide high brightness and superb contrast in spite of their compact body. The unique Daylight View Basic function allows them to project crisp, high-resolution images without having to dim the room light. From classrooms in elementary and high schools to university lecture rooms, engineering or art classes, and company meeting rooms, these advanced projectors produce bright, easy-to-see images for all kinds of applications. They also feature an ecological design that lowers power consumption, flexibility in installation, and easy maintenance.



PT-EZ570/L WUXGA / 5000 LM / 5000:1 Contrast
PT-EW630/L WXGA / 5500 LM / 5000:1 Contrast
PT-EX600/L XGA / 6000 LM / 5000:1 Contrast
PT-EW530/L WXGA / 4500 LM / 2000:1 Contrast
PT-EX500/L XGA / 5000 LM / 2000:1 Contrast

REPLACEMENT LAMP ET-LAE200



Panasonic PT-DZ570 Series

Installation Projectors

The PT-DZ570 Series projectors incorporate a wealth of original Panasonic technologies to bring high-quality images to all kinds of operating conditions and applications. They offer better reliability and require less maintenance. Plus, the PT-DZ570 Series features convenient functions to facilitate either a new installation or the replacement of an existing system. They are compact, affordable 1-chip DLP™ projectors with a long list of features and functions, including optional wireless operation.



PT-DZ570U WUXGA / 4000 LM / 2,000:1 Contrast
PT-DW530U WXGA / 4000 LM / 2,000:1 Contrast
PT-DX500U XGA / 4500 LM / 2,000:1 Contrast

REPLACEMENT LAMP ET-LAD60A



Panasonic PT-FW430 Series

Installation Projectors

The all new Panasonic FW430 Series projectors provide a reliable 6,000-hour lamp that is retrofit friendly and easy to replace from the rear, while using inorganic, durable LCD panels that allow for a crisp, luminous picture quality. With the addition of a dust-resistant cabinet and a new, reusable Eco Filter, the FW430 Series saves on time, money and maintenance by allowing up to 12,000 hours of operation before filter replacement is necessary. And FW430 Series projectors offer greater installation flexibility than ever before with HDMI and DVI-I terminals that allow a wider range of input capabilities and a new wireless application option that is compatible with iOS.



- Resolution: XGA (1024 x 768)
- Contrast Ratio: 600:1
- 3LCD Technology
- Weigh 13.2 lbs

PT-FW430U WXGA / 3500 LM
PT-FX400U XGA / 4000 LM

REPLACEMENT LAMP ET-LAF100A



Panasonic PT-LZ370

Full HD Installation Projector

The PT-LZ370U is a Full HD projector with 1,920 x 1,080 pixel resolution that delivers 3,000 lumens of brightness, and has Dynamic Iris Pro that helps achieve a 10,000:1 contrast ratio. In addition to a 3,000 hour maximum lamp and filter replacement cycle, Detail Clarity Processor 3 gives natural clarity to even the finest details and Daylight View Premium corrects the image quality to project sharp, clear images even in brightly lit rooms. The LAN terminal allows a computer connected to the network to use Crestron RoomView™ application software to manage and control system devices. The 2x zoom lens and horizontal/vertical lens shift let you accommodate a wide range of room sizes and shapes.



- Brightness: 3,000 Lumens
- Full HD (1920 x 1080)
- Contrast Ratio: 10,000:1
- 3LCD Technology
- Weighs 19 lbs
- 3 Year Warranty

REPLACEMENT LAMP ET-LAA110



Panasonic PT-AE8000U

Full HD Home Theater Projector

The PT-AE7000U is Panasonic's first Full HD 3D home theater projector with a 1080p (1,920 x 1,080 pixel) resolution. The PT-AE7000U is also the world's first 3D projector to use transparent LCD panels driven at 480Hz that combined with Panasonic's original Overdrive Technology, realizes significantly low crosstalk. Thanks to the newly-developed optical engine, which produces an incredible 300,000:1 contrast ratio and 2,000 lumens of brightness, the PT-AE7000U delivers both stunning 2D images and a comfortable and immersive 3D viewing experience at home. The optical system of the PT-AE7000U features a new 200 Watt Red-Rich Lamp and new LCD panels with larger aperture ratio for increased red luminance and brightness output.



- 2,400 ANSI Lumens
- Full HD (1920 x 1080)
- Contrast Ratio: 500,000:1
- 3LCD Technology
- Weighs 19.2 lbs
- 1 Year Warranty

REPLACEMENT LAMP..... ET-LAA410



Panasonic PT-AR100U

Full HD Home Theater Projector

The PT-AR100U lets friends and family enjoy full-high definition large screen entertainment from movies, to sports to video games. The PT-AR100U Full High-Definition LCD Home Theater Projector with 1080p (1,920 x 1,080 pixel) delivers bright, sharp images by employing a new, high-power 280-watt Red-Rich Lamp and optical unit that generates 2,800 lumens of brightness for comfortable viewing in various lighting conditions. Its advanced Light Harmonizer 3 feature uses built in ambient light and color sensors that automatically adjust the picture quality to match living room or theater room conditions to maintain bright, crisp pictures.



- 2,800 ANSI Lumens
- Full HD (1920 x 1080)
- Contrast Ratio: 50,000:1
- 3LCD Technology
- Weighs 19 lbs
- 1 Year Warranty

REPLACEMENT LAMP..... ET-LAA1100



Panasonic PT-CW230U

WXGA Ultra-Short Throw Projector

A large 80" diagonal image from the world's shortest projection distance of about 13 inches is achieved by a newly developed ultra short-focus mirror optical system. This projector is perfect for giving effective lectures or presentations in educational settings, with a maximum projected image size of 110" diagonal. This projector can be placed in a variety of locations including table tops, walls, ceilings, or floors. The PT-CW230U is equipped with Panasonic's proprietary hybrid filter, composed of multiple filter layers, and the lamp life has been improved compared to conventional models. The longer lamp lifespan and long life filter saves time and money.



- 2,500 ANSI Lumens
- WXGA (1280 x 800)
- Contrast Ratio: 2000:1
- Weights 13.7 lb

PT-CX200U..... Short Throw Projector XGA / 2500 Lm

REPLACEMENT LAMP..... ET-LAC100



Panasonic PT-ST10U

XGA Short Throw Projector

The new PT-TW231RU short throw LCD projector has been designed with a short focal lens that allows the device to project a 1.3 m wide image from a mere 65 cm (2.13ft) away from the display surface. This installation flexibility prevents the projector's light from shining into a presenter's face. Minimal maintenance is necessary thanks to a long lamp life and a durable multi-layered filter, both with a replacement cycle of up to 4,000 hours. Built-in interactive feature enables users to project onto surfaces and interact without a specialized board. This includes a pen and a pointer containing infrared sensors that send the signal back to the camera module on the projector so that the users can write text, graphics or lines on the projected images.



- 2,800 ANSI Lumens
- XGA (1024 x 768)
- Contrast Ratio: 500:1
- 3LCD Technology
- Weighs 6.8 lbs
- 80" image from just 2.7 ft

REPLACEMENT LAMP..... ET-LAB2



Panasonic PT-TW231RU

WXGA Short Throw Projector

The new PT-TW231RU short throw LCD projector is ideal for classrooms or offices. It has been designed with a short focal lens that allows the device to project a 1.3 m wide image from a mere 2.13ft away from the display surface. Minimal maintenance is necessary thanks to a long lamp life and a durable multi-layered filter, both with a replacement cycle of up to 4,000 hours. Built-in interactive feature enables users to project onto surfaces and interact without a specialized board. This includes a pen and a pointer containing infrared sensors that send the signal back to the camera module on the projector so that the users can write text, graphics or lines on the projected images.



- 2,500 ANSI Lumens
- WXGA (1280 x 800)
- Contrast Ratio: 500:1
- 3LCD Technology
- Weighs 10.4 lbs
- 3 Year Warranty

PT-TW230U..... Short Throw Projector WXGA / 2500 Lm

REPLACEMENT LAMP..... ET-LAT100



Panasonic PT-LB3U

XGA Portable Projector

The PT-LB3 Series offers superb basic performance, such as a 5,000-hour lamp replacement cycle. Its Intelligent Power Management function allows resistance to sudden voltage fluctuations. A network function reduces management tasks with a wired LAN connection, and allows flexible system upgrading. And an easy setup function enables quick operation for portable use. This kind of versatility brings efficient visual communication to all kinds of applications. A 5,000-hour lamp replacement cycle saves operating costs. Setup is fast and easy thanks to features like Speed Start which brings up the image quickly, and simple single-leg adjustment of the projector angle.



- 3,200 ANSI Lumens
- XGA (1024 x 768)
- Contrast Ratio: 600:1
- 3LCD Technology
- Weighs 5.07 lbs
- 3 Year Warranty

PT-LB2VU..... XGA / 2,600 Lm

REPLACEMENT LAMP..... ET-LAB2



Panasonic PT-LX30HU

XGA Portable Projector

The Panasonic PT-LX30HU offers an excellent balance of light weight, brightness and contrast. Easy operation and excellent mobility make them ideal for classrooms, board rooms, and other portable uses. In addition to a 4,000 hour maximum lamp and filter replacement cycle, a Real-Time Keystone correction will automatically square the image during setup while Colorboard and Blackboard preset picture modes adjust colors to provide high-quality projection in the absence of a screen. For educational institutions, the PT-LX30HU also comes equipped with a built in Closed Caption decoder.



- 3,000 ANSI Lumens
- XGA (1024 x 768)
- Contrast Ratio: 2,500:1
- 3LCD Technology
- Weighs 6.59 lbs
- 3 Year Warranty

PT-LW25HU..... WXGA / 2500 Lm

PT-LX26HU..... XGA / 2600 Lm

REPLACEMENT LAMP..... ET-LAL100



Panasonic PT-VW330U

WXGA Portable Projector

The Panasonic PT-VW330U projector provides mobility, 3,000 lumens of brightness in a compact form-factor and can be moved from one room to another or installed from a ceiling. Equipped with a lamp that has a 5,000-hour replacement cycle and an original 3-layer air filter with a 6,000-hour filter replacement cycle, labor and expense typically attributed to periodic maintenance is greatly reduced. With a 1.6x zoom lens and auto keystone feature, installation, setup and operation is easy. This lightweight projector is portable and eco-friendly with a low 0.48W standby power consumption rating.



- 3,000 ANSI Lumens
- WXGA (1280 x 800)
- Contrast Ratio: 2,000:1
- 3LCD Technology
- Weighs 7.7 lbs
- 3 Year Warranty

REPLACEMENT LAMP..... ET-LAV100



Panasonic PT-VX400NTU

XGA Portable Projector

The Panasonic PT-VX400NTU wireless projector is equipped with a lamp that has a 5,000-hour replacement cycle and a 3-layer air filter with a 6,000-hour filter replacement cycle. With a 1.6x zoom lens and auto keystone feature, installation, setup and operation is easy. The PT-VX400NTU projector also includes a 10-watt speaker and microphone input for audio playback directly from the projector, a built-in closed caption decoder and a carrying bag with a handy shoulder strap. Dependable and portable projectors, this series is ideal for use in corporate conference rooms, training rooms, classrooms and more.



- 4,000 ANSI Lumens
- XGA (1024 x 768)
- Contrast Ratio: 2,000:1
- 3LCD Technology
- Weighs 7.7 lbs
- 3 Year Warranty

PT-VX400U..... Without Wireless

REPLACEMENT LAMP..... ET-LAV100





Panasonic PT-DZ13KU Series

WUXGA Large Venue Projector

In addition to the high brightness and compact size, the PT-DZ13KU with WUXGA (1,920 x 1,200) resolution and 12,000 lumens of brightness boasts long lamp replacement cycles of up to 2,000 hours, 3D compatibility and installation flexibility, making this projector ideal for large-venue applications such as auditoriums, museums and rental and staging that requires both maximum brightness and easy handling. The Lens Memory adjusts the image size and location in up to three different projection positions and the combination of four new 380W UHM lamps and the Dynamic Iris allow the PT-DZ13KU to deliver a 10,000:1 contrast ratio to ensure super high brightness and best possible picture quality.

This device has been designed with an extremely small footprint due to a highly efficient optical design as well as an improved liquid cooling system that makes it possible to keep the noise level to a minimum during operation. Due to its compact size, the PT-DZ13KU total cost of ownership is further enhanced by saving warehouse space and minimizing the cost of shipping from one location to another. The PT-DZ13KU is built to maximize savings with a maintenance-free Eco Filter with a lifespan of up to 4,000 hours and low consumption of 1,050W.

RESOLUTION	WUXGA (1920 x 1200)
BRIGHTNESS	12,000 ANSI Lumens (Dual-Lamp)
CONTRAST RATIO	10,000:1
DISPLAY TECH	DLP
WEIGHT	52.9 lbs (without lens)
WARRANTY	3 Year Parts and Labor
LAMP PART #	ET-LAD310A
SPECIAL FEATURES	System Daylight View, Mechanical lens shutter, Picture in Picture, Lens Shift, Edge Blending, Color Matching, Geometric Adjustment, Multi-screen Support, Network Function

ALSO AVAILABLE:

PT-DS12K	SXGA+ / 12,000 Lm / Lamp # ET-LAD310A
PT-DW11K	WUXGA / 11,000 Lm / Lamp # ET-LAD310A
PT-DZ10K	WUXGA / 10,600 Lm / Lamp # ET-LAD310A

*Incredible Brightness
& High Picture Quality*



Panasonic PT-DW8300U

WUXGA Large Venue Projector

The PT-DW8300U offers 9,600 lumens, a 10,000:1 contrast ratio, 16:9 aspect ratio and 1366 x 768 WUXGA resolution. It is ideally suited for a wide range of fixed installation and public display venues including live events, auditoriums, staging, digital signage and independent cinema. With dual-lamp operation, the PT-DZ8700 series is also tailor-made for any 24/7 implementation, such as command and control centers.

The projectors are distinguished by superb picture quality: a Dynamic Iris system helps reproduce deeper, richer blacks and achieve the remarkable 10,000:1 contrast ratio; a Detail Clarity Processor 3, a Panasonic exclusive, produces pictures with natural, three-dimensional appearance and crisp, clear detail; and a DICOM* simulation picture mode is offered for use in medical applications.

- Contrast Ratio: 10,000:1
- Weighs 52.9 lbs
- DLP Technology
- 3 Year Warranty

PT-DS8500U	SXGA+ / 10,600 LM / HD/SD-SDI Input
REPLACEMENT LAMP	ET-LAD310



Panasonic PT-DZ21K Series

Large Venue Projectors

The Panasonic PT-DZ21K Series of flagship models feature breathtakingly beautiful images and reliable operation. A host of creative capabilities meet the projection needs of highly critical professionals. The compact size, light weight, and low operating noise of the PT-DZ21K Series realize brighter images and more applications. The combination of four new 465W UHM lamps and Dynamic Iris allow the projectors to deliver a 10,000:1 contrast ratio for high brightness and high picture quality. The PT-DZ21KU and PT-DS20KU projectors are 3D ready, providing greater visual impact for the viewer.

- Contrast Ratio: 10,000:1
- Weighs 52.9 lbs
- 3-Chip DLP Technology
- 3 Year Warranty

PT-DZ21KU	WUXGA / 20,00 LM / HD/SD-SDI Input
PT-DS20KU	SXGA+ / 120,00 LM / HD/SD-SDI Input
PT-DW17KU	WUXGA / 20,00 LM / 10,000:1 Contrast
REPLACEMENT LAMP	ET-LAD510 (FOUR PACK: ET-LAD510F)



Panasonic PT-EX12KU

WUXGA Large Venue Projectors

The PT-EX12KU LCD projector, featuring 13,000 lumens of brightness, XGA resolution, is ideal for houses of worship, rental and staging and end-users seeking high brightness large venue projection. The projector is equipped with a dual-lamp optical system that ensures operation and is encased in a ruggedized chassis for high reliability and durability. A Pure Color Control device which independently controls yellow brightness to improve color reproduction attains this superb brightness with optimal coloring. System expansion functions include horizontal/vertical lens shift and a Multi-Screen Support System. These and other features enable flexible installation for a wide variety of applications.

- Brightness: 13,000 ANSI Lumens
- 3LCD Technology
- Resolution: XGA (1024 x 768)
- Weight: 61.7 lbs
- Contrast Ratio: 4,000:1
- 3 Year Warranty

REPLACEMENT LAMP	ET-LAE12
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Panasonic PT-EX16KU

WUXGA Large Venue Projectors

The PT-EX16KU LCD projector, featuring 16,000 lumens of brightness, XGA resolution, is added to the large venue lineup for houses of worship, mid sized rental and staging, and customers seeking high brightness large venue projection images for moderate use. The product is equipped with a quad lamp technology and encased in a ruggedized chassis for high reliability and durability. Pure Color Control, which independently controls yellow brightness to improve color reproduction attains this superb brightness with optimal coloring. The 4-Lamp Optical System maintains high reliability. And system expansion functions include horizontal/vertical lens shift and a Multi-Screen Support System. These and other features enable flexible installation for a wide variety of applications.

- Brightness: 16,000 ANSI Lumens
- 3LCD Technology
- Resolution: XGA (1024 x 768)
- Weight: 102.5 lbs
- Contrast Ratio: 2,500:1
- 3 Year Warranty

REPLACEMENT LAMP	ET-LAE16
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EPSON BrightLink 475Wi

EXCEED YOUR VISION WXGA Interactive Projector

Make a table or almost any wall interactive with the BrightLink 475Wi Interactive Projector. This high-performance projector + pen combination integrates interactive functionality in one machine, without the constraints or expense of an interactive whiteboard.



- Brightness: 2600 ANSI Lumens
- WXGA Resolution (1280 x 800)
- Ultra-Short Throw Distance (59" – 97" WXGA)
- 3,000:1 Contrast Ratio
- USB Plug 'n Play
- Weighs only 11.9 lbs
- Comes with Two (2) interactive pens

REPLACEMENT LAMP..... V13H010L71



EPSON PowerLite 485W

EXCEED YOUR VISION WXGA Ultra-Short Throw Projector

The PowerLite 485W ultra-short-throw projector makes it easy to project large images from the shortest distance for maximum impact. They can be mounted to the wall with the included wall mount, making it ideal for use with interactive or standard dry-erase whiteboards.



- 3100 Lumens, WXGA Resolution (1280 x 800)
- Project an 80" image from just 8" away
- 3-in-1 USB Plug 'n Play
- 4000-hour lamp life

PowerLite 470 XGA / 2600 Lm
PowerLite 475W WXGA / 2600 Lm
PowerLite 480 XGA / 3000 Lm

REPLACEMENT LAMP..... V13H010L71



EPSON PowerLite 435W

EXCEED YOUR VISION WXGA Short Throw Projector

Captivate any classroom or conference room with ultra bright images from the PowerLite 435W, a powerful short-throw projector that is ideal for wall-mount installations or use with interactive whiteboards.



- 3000 Lumens, WXGA Resolution (1280 x 800)
- Project an 80" image from just 2.7 feet away
- 3-in-1 USB Plug 'n Play
- PC-free slideshows

PowerLite 420 XGA / 2500 Lm
PowerLite 425W WXGA / 2500 Lm
PowerLite 430 XGA / 3000 Lm

REPLACEMENT LAMP..... V13H010L61



EPSON VS410

EXCEED YOUR VISION XGA Portable Projector

The Epson VS410 breaks the mold for affordable, ultra bright business projectors, delivering amazing images in any setting with easy-to-use features.



- 4000 Lumens, XGA Resolution (1024 x 768)
- 2500:1 Contrast Ratio
- 1.6x optical zoom
- Built-in 5W speaker
- 4000-hour lamp life
- Weighs only 7.25 lbs

REPLACEMENT LAMP..... V13H010L64



EPSON PowerLite 1945W

EXCEED YOUR VISION WXGA Portable Projector

Keep presentations shining bright, even in ambient light, with the PowerLite 1945W. Designed for both working professionals and educators, this bright, feature-packed solution projects vibrant, colorful images in virtually any setting.



- 4200 Lumens, WXGA Resolution (1280 x 800)
- Contrast Ratio: 3,000:1
- USB plug 'n play instant setup
- Crestron Integrated Partner and RoomView
- PC-Free Presentations
- Weighs only 8.5 lbs

REPLACEMENT LAMP..... V13H010L76



EPSON PowerLite D6250

EXCEED YOUR VISION XGA Portable Projector

Boasting a robust design, advanced networking capabilities and cost-efficient maintenance features, the PowerLite D6250 is the perfect solution for lecture halls and corporate conference rooms alike. Featuring a dust-resistant design, long lamp life and amazing 10000-hour filter cycle.



- 4000 Lumens, XGA Resolution (1024 x 768)
- Contrast Ratio: 2,000:1
- Wireless LAN
- Crestron RoomView Enabled
- Weighs only 9.7 lbs

PowerLite D6150 XGA / 3500 Lm
PowerLite D6155W WXGA / 3500 Lm

REPLACEMENT LAMP..... V13H010L64



EPSON PowerLite 1915

EXCEED YOUR VISION XGA Portable Projector

The powerful, portable Epson PowerLite 1915 projector yields vivid, high quality images, yet still includes a host of user-friendly features, such as a wireless module for easy wireless setup. The PowerLite 1915 offers remarkable versatility with innovative features like Screen Fit, powered focus and more.



- 4000 Lumens, XGA Resolution (1024 x 768)
- Contrast Ratio: 2,000:1
- USB Plug 'n Play instant setup
- PC-free presentations
- Wireless LAN
- Weighs only 7.82 lbs

REPLACEMENT LAMP..... V13H010L53



EPSON PowerLite X15

EXCEED YOUR VISION XGA Portable Projector

The PowerLite X15 produces crisp, bright presentations in any classroom or conference room, all at an affordable price. Thanks to HDMI digital connectivity, connect to the latest laptops and media players for high-quality audio and video with just one cable.



- 3000 Lumens, XGA Resolution (1024 x 768)
- Contrast Ratio: 3,000:1
- Built-in 2 W speaker
- 3-in-1 USB Plug 'n Play instant setup
- Weighs only 5.1 lbs

PowerLite S11 SVGA / 2600 Lm

REPLACEMENT LAMP..... V13H010L67



EPSON PowerLite 1776W

EXCEED YOUR VISION WXGA Portable Projector

Its ultra-slim design and easy wireless connectivity make the Epson PowerLite 1776W the ultimate choice in portable projectors. It delivers value, convenience and performance. The PowerLite 1776W easily delivers HD video content or images from widescreen notebooks with native WXGA resolution.



- 3000 Lumens, WXGA Resolution (1280 x 800)
- Contrast Ratio: 2,000:1
- PC-free presentations & USB Plug 'n Play
- Weighs only 3.8 lbs

PowerLite 1751 XGA / 2600 Lm
PowerLite 1761W WXGA / 2600 Lm
PowerLite 1771W WXGA / 3000 Lm

REPLACEMENT LAMP..... V13H010L65



EPSON PowerLite 915W

EXCEED YOUR VISION WXGA Portable Projector

This leading-edge performer ensures brilliant presentations in any setting with 3200 lumens of color / white light output. The PowerLite 915W is also equipped with a microphone input and a premium 16 W speaker, so all students will hear the lesson, without costly speakers or voice strain.



- 3200 Lumens, WXGA Resolution (1280 x 800)
- Contrast Ratio: 2,000:1
- Weighs only 7.4 lbs
- Wireless LAN
- 4000 hour lamp life in Normal mode

PowerLite 905 XGA / 3000 Lm

REPLACEMENT LAMP..... V13H010L61



EPSON VS315W

EXCEED YOUR VISION WXGA Portable Projector

With a high-definition, widescreen, 16:10 format, the VS315W produces 30% more image area than a standard projector, while 3LCD technology and 2600 lumens of light output create brilliant color and razor-sharp detail that's sure to captivate any audience.



- 2600 Lumens, WXGA Resolution (1280 x 800)
- Contrast Ratio: 3,000:1
- Weighs only 5.1 lbs
- USB Plug 'n Play

VS210 SVGA / 2600 Lm
VS310 XGA / 2600 Lm

REPLACEMENT LAMP..... V13H010L67



EPSON PowerLite 1261W

EXCEED YOUR VISION WXGA Portable Projector

The PowerLite 1261W delivers the ultimate in HD performance for compelling presentations. A breathtaking widescreen, 16:10 format produces 30% more image area than lower resolution projectors, while 2800 lumens of brightness create brilliant color and razor-sharp detail that's sure to captivate any audience.



- 2800 Lumens, WXGA Resolution (1280 x 800)
- Contrast Ratio: 3,000:1
- Weighs only 5.1 lbs
- USB Plug 'n Play

PowerLite 1221 XGA / 2800 Lm

REPLACEMENT LAMP..... V13H010L67



EPSON PowerLite 4300

EXCEED YOUR VISION XGA Installation Projector

Featuring 5200 lumens of light output, plus XGA resolution, this powerful performer ensures amazing presentations and provides convenient maintenance features. The PowerLite 4300 is ideal for both executive boardrooms and educational institutions, with value, power and performance for all your presentation needs.



- 5200 Lumens, XGA Resolution (1024 x 768)
- Contrast Ratio: 1,000:1
- Network-ready: RJ-45 LAN connection w/ monitor & control capabilities
- 1.8x zoom lens and Quick Corner®

PowerLite 4100 XGA / 4500 Lm
PowerLite 4200W WXGA / 4500 Lm

REPLACEMENT LAMP..... V13H010L63



EPSON MovieMate 85HD

EXCEED YOUR VISION WXGA Home Theater Projector

Experience the ultimate versatility in widescreen, high-definition home entertainment with Epson MovieMate 85HD, a powerful projector, DVD and music player combo that brings you brilliant blockbuster performance. Just plug, load and play. Get larger-than-life entertainment — anytime, day or night — with 2500 ANSI lumens of brightness and 720p widescreen performance.



- 2500 Lumens, WXGA Resolution (1280 x 800)
- Contrast Ratio: 3,000:1
- Built-in DVD player & dual Dolby® 5.1 Digital DTS® 10W stereo speakers
- Up to 5000 hour lamp life

REPLACEMENT LAMP..... V13H010L66



EPSON MegaPlex MG-850HD

EXCEED YOUR VISION Full HD Home Theater Projector

The easy-to-use MegaPlex MG-850HD eliminates the confinement of small screens and enables sharing multimedia content from digital devices, from the boardroom to the media room. Place an Apple® device in the built-in dock. Or, connect a smartphone, tablet, gaming console, PC and more.



- 2800 Lumens, WXGA Resolution (1280 x 800)
- Contrast Ratio: 3,000:1
- Built-in dock — perfect for an Apple iPod, iPhone and iPad
- Big stereo sound — two built-in 10-watt speakers enhance your presentations

REPLACEMENT LAMP..... V13H010L67



INSTALLATION EXHILARATION



The LCD Projectors of Choice, Now with More Choices.

Hitachi's Installation Series LCD projectors bring large venue performance and superior networking connectivity to a variety of applications. The Installation Series is designed to facilitate ceiling mounting in mid to large size spaces and incorporates a robust set of innovative, performance enhancing features that will leave any audience exhilarated and enthralled. Hitachi award-winning projectors offer superior reliability, advanced and flexible technology, and hassle-free maintenance. All this, but with a low cost of ownership. Plus, each Hitachi projector is backed by a generous warranty and our world-class service and support programs. More choices. More solutions. Contact Hitachi today to learn which Installation Series LCD projector is right for your specific application.

1.800.HITACHI
hitachi-america.us/projectors



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HITACHI
Inspire the Next



Easy to use installation projector with advanced features



HITACHI CP-WX8265

Inspire the Next WXGA Installation Projector

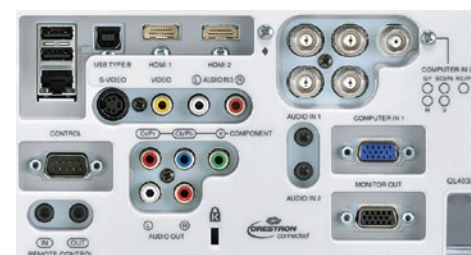
Hitachi's installation-friendly CP-WX8265 LCD projector is designed to provide maximum presentation impact in mid to large venue applications. It offers a versatile array of innovative, performance-enhancing features along with advanced video display technology providing bold, brilliant colors with incredible image clarity and uniformity. Plus, with motorized zoom, focus and superior lens shift, and a variety of lens options, the CP-WX8265 is at the top of its class when it comes to installation flexibility. With a tough magnesium die cast body, the CP-WX8265 is one of the most durable projectors available today. All this, and with a lower cost of ownership. For added peace of mind, Hitachi's CP-WX8265 is also backed by a generous warranty and world class service and support programs.

RESOLUTION	WXGA (1280 x 800)
BRIGHTNESS	6,500 ANSI Lumens
CONTRAST RATIO	3,000:1
DISPLAY TECH	3LCD
WEIGHT	19.4 lbs
WARRANTY	3 Year Parts and Labor
LAMP PART #	DT01471

SPECIAL FEATURES Projector Quick Connection iPad® App, Picture In Picture, Picture By Picture, Perfect Fit 2, PJMessenger, Multiple Lens Options, 360° Rotation, Motorized Zoom, Focus and Lens Shift Control, Accentualizer

- WXGA resolution and 6,500 lumens white/color output
- Accentualizer - advanced image processing
- Picture by Picture and Picture in Picture
- Two speed motorized zoom, focus and lens shift control
- 20,000 hours hybrid filter, 2,500 hours lamp life (Eco mode)
- 360° display rotations

CP-WX8255A	WXGA / 5,500 Lm
CP-WX8240A	WXGA / 4,000 Lm



HITACHI 9000 Series

Inspire the Next Installation Projectors

The new 9000 series DLP projectors feature brightness levels of up to 10,000 Lumens and contain advanced features to deliver exceptionally high quality images, along with flexible installation and low maintenance operation.

The new 9000 Series includes the 10,000 Lumen XGA CP-X9110, the 8500 Lumen WXGA CP-WX9210 and the 8500 Lumen WUXGA CP-WU9410. All three models contain the built-in dual color wheel that enables users to switch between high brightness mode or the rich color mode via the remote control, depending upon the ambient conditions.

The dual lamp system, available on all models, can operate together for high brightness or individually for longer lamp life. Lamps switch automatically in the event of a failure and in Alternative mode can operate continuously for twenty-four hour operation. Lamp time, filter time, projection time and IP address can all be monitored for easy maintenance via the LCD panel on the rear of the projector. However, with an advanced new cooling system and a high performance filter that is expected to last up to 50 times longer than conventional filters, maintenance should be minimal.

- Built-in Dual Color Wheel
- Accentualizer Technology
- HDCR (High Dynamic Contrast Range)
- Dual Lamp Design
- DICOM Simulation Mode
- Motion Adaptive Deinterlacer
- Equalizing Gamma/Color Balance
- Edge Blending
- Superior Lens Shift
- Geometric Correction and 360° Projection



HITACHI CP-WU8460

Inspire the Next WUXGA Installation Projector

Hitachi's new CP-WU8460 projector is geared up for simple and user-friendly functionality in any environment. With a convenient motorized lens shift, and a 360° vertical tilt angle, images can be seamlessly adjusted and moved at the touch of a button. Plus, with a wide range of optional lenses, the CP-WU8460 can adapt to any environment, from conference rooms and lecture theatres, to museums or anywhere requiring a creative solution.

- Motorized Lens Shift, Zoom and Focus
- Wide range of Optional Lenses
- Brightness: 6,000 ANSI Lumens, and Resolution: WUXGA (1920 x 1200)
- Contrast Ratio: 3,000:1 (Presentation Mode)
- 3,000 hour lamp life (Eco), Hybrid filter lasts 20,000 hours in Eco Mode
- AMX Device Discovery and Crestron RoomView®

CP-WU8440	WUXGA / 4000 Lm / Lamp # DT01281
CP-WU8450	WUXGA / 5000 Lm / Lamp # DT01291
CP-WU8460	WUXGA / 6000 Lm / Lamp # DT01471



HITACHI CP-X8160

Inspire the Next XGA Installation Projector

Hitachi's new CP-X8160 projector is geared up for simple and user-friendly functionality in any environment. With a convenient motorized lens shift, and a 360° vertical tilt angle, images can be seamlessly adjusted and moved at the touch of a button. Plus, with a wide range of optional lenses, the CP-X8160 can adapt to any environment, from conference rooms and lecture theatres, to museums or anywhere requiring a creative solution.

- 6000 ANSI Lumens, and Resolution: XGA (1024 x 768)
- 3000:1 Contrast ratio (Presentation Mode)
- 3000 hour lamp life (Eco), Hybrid filter lasts 20,000 hours in Eco Mode
- 360° Vertical Tilt Angle
- Instant stacking for enhanced brightness levels
- AMX Device Discovery and Crestron RoomView®
- Wide range of optional lenses and Optional wireless network feature

CP-X8150	XGA / 5,000 Lm (Lamp DT01281)
CP-X8160	XGA / 6,000 Lm (Lamp DT01291)
CP-X8170	XGA / 7,000 Lm (Lamp DT01471)



Available in the
9000 Series

CP-X9110

XGA (1024 x 768)
10,000 ANSI Lumens



CP-WX9210

WXGA (1366 x 800)
8,500 ANSI Lumens



CP-WU9410

WUXGA (1920 x 1200)
8,500 ANSI Lumens





HITACHI CP-AW312WN

Inspire the Next WXGA Ultra-Short Throw Projector

Hitachi's CP-AW312WN ultra short throw LCD projector combines an array of advanced features in a compact, portable design perfectly suited for classrooms of any size. Small in size, but big on performance, the CP-AW312WN provides vibrant image quality, cost-effective operation, and long-lasting reliability. The CP-AW312WN incorporates a cloning function which enables you to copy configuration settings from one projector to others of the same model via USB memory.

The CP-AW312WN ultra short throw LCD projector from Hitachi is specifically designed to enhance the educational experience — for students and teachers. Leading edge projector technology helps stimulate the imagination of students of all ages and makes lessons become more interesting, compelling and memorable.

- ImageCare technology
- Wireless compatible
- Projector Quick Connection iOS App

CP-A352WN XGA / 3,500 Lm (Lamp DT01411)
CP-AW252WN WXGA / 2,500 Lm (Lamp DT01381)

RESOLUTION	WXGA (1280 x 800)
BRIGHTNESS	3,000 ANSI Lumens
CONTRAST RATIO	4,000:1
DISPLAY TECH	3LCD
WEIGHT	8.6 lbs
WARRANTY	3 Year Parts and Labor
LAMP PART #	DT01831
SPECIAL FEATURES	Projector Quick Connection iOS App, Wireless Ready, Perfect Fit 2, Tabletop Presentation, Display via USB, PC-Less Presentation, PJMessenger, Intelligent Eco and Saver Modes, Cloning Function



Fully featured ultra short throw projector with network capabilities and a low operating cost all in a compact design.



HITACHI CP-AW2519N

Inspire the Next WXGA Interactive Projector



The Ultimate Short Throw series provides high performance projection in small spaces. By integrating Hitachi Starboard software with advanced projector technology, the CP-AW2519N can deliver the complete interactive experience on any flat surface. The compact, lightweight chassis makes this projector easy to install and flexible to use. With an optional wall mount or table top stand you can project onto any existing whiteboard, wall or table top.

- Fully interactive: Bundled with Hitachi Starboard software & Interactive pen
- WXGA (1280 x 800) Resolution
- Brightness: 2500 ANSI Lumens
- 6,000 Hour Lamp Life (Eco Mode) - The lamp is rated at 3,000 hours in standard mode and 5,000 hours in Eco mode
- 2000:1 Contrast Ratio
- 80" image from only 21"
- Hybrid Filter: 4,000 hour cleaning cycle
- Suitable for any flat surface

REPLACEMENT LAMP DT01251



HITACHI CP-A222WN

Inspire the Next XGA Short Throw Projector



The light weight and compact CP-A222WN Ultimate Short Throw projector offers the highest quality images with a compelling design and low cost of ownership. With the bundled wall mount and optional table top kit you can project onto any existing whiteboard, wall or table top. Easy to install and flexible to use with optional wireless networking making the CP-A222WN the ideal solution for any education environment.

- XGA 1024 x 768 resolution
- 2200 ANSI Lumens (Bright Mode)
- 4000:1 Contrast Ratio
- Screen Size: 80" (203 cm) Image from only 50 cm
- Extended hybrid filter life with 4000 hour filter cleaning cycle
- Advanced networking features
- Wall mount included in the box
- Optional table top mount

REPLACEMENT LAMP DT01123



HITACHI CP-DX250

Inspire the Next XGA Classroom Projector



Hitachi's CP-DX250 DLP® projector represents the new standard for classroom environments and versatility with high resolution XGA performance, an innovative feature set and overall value. The CP-DX250 incorporates 2,500 ANSI lumens light output and a 2500:1 contrast ratio for vibrant, bold images with deeper black levels and razor-sharp text. Performance versatility is enhanced by HDMI terminals which accommodate many types of AV devices. Plus, Hitachi's Intelligent Eco Mode with ImageCare combines optimal picture performance with energy savings for a lower cost of ownership.

- XGA 1024 x 768 resolution
- 2,500 ANSI lumens light output
- 2,500:1 Contrast Ratio
- 4,500 hours lamp life (Standard mode), 6,000 hours lamp life (Eco mode)
- ImageCare Technology for energy savings
- BrilliantColor and Deeper black levels
- Wall color correction

CP-DX300 XGA / 3,000 Lm

REPLACEMENT LAMP DT01461



HITACHI

Inspire the Next

CP-X2530WN

XGA Classroom Projector

From the classroom to the conference room, Hitachi's CP-X2530WN LCD projector combines superior image clarity, high quality value, and long-life reliability. Bright, vivid colors with razor-sharp text and bold graphics will truly enhance any lesson or meeting and make it more memorable. For greater installation convenience, the CP-X2530WN has a cloning function which enables copying configuration settings from one projector to others of the same model via USB memory.



The CP-X2530WN also includes our iOS application Projector Quick Connection App which offers simple control options including sending photo and document files and web site contents to the projector. Plus, Hitachi's Intelligent Eco Mode with ImageCare combines optimal picture performance with maximum energy savings for a lower total cost of ownership. For added peace of mind, Hitachi's CP-X2530WN is also backed by a generous warranty and our world-class service and support programs.

- XGA 1024 x 768 resolution
- 2,700 ANSI lumens white/color output
- 16 watt audio output
- 4000:1 contrast ratio
- HDMI 1 input
- 5,000 hours hybrid filter
- 5,000 hours lamp life (Standard mode) and 6,000 hours lamp life (Eco mode)
- Power saving standby mode less than 0.5W

CP-X3030WN	XGA / 3,200 Lm (Lamp DT01431)
CP-WX3030WN	WXGA / 3,000 Lm (Lamp DT01481)
CP-X2530WN	XGA / 2,700 Lm (Lamp DT01431)



HITACHI

Inspire the Next

CP-WX4022WN

WXGA Collegiate Projector

As part of Hitachi's Collegiate Series, the CP-WX4022WN combines WXGA 1280 x 800 resolution with super-bright 4,000 ANSI lumens white/color light output for a stunning visual achievement. It can transform classrooms, lecture halls, and auditoriums into true learning centers.



The CP-WX4022WN is easily stackable which enables placement of one projector on top of another to project the same image from both onto a screen for added brightness. Plus, Hitachi's Intelligent Eco Mode with ImageCare combines optimal picture performance with maximum energy savings for a lower cost of ownership. For added peace of mind, Hitachi's CP-WX4022WN is also backed by a generous warranty and our world-class service and support programs.

- WXGA 1280 x 800 resolution
- 4,000 ANSI lumens white/color output
- 3000:1 contrast ratio
- Horizontal and vertical lens shift
- 5,000 hours hybrid filter
- 3,000 hours lamp life (Standard mode); 5,000 hours lamp life (Eco mode)
- ImageCare Technology for energy savings
- Embedded LAN/wireless compatible
- Projector Quick Connection iOS App

CP-X4022WN	XGA / 4,000 Lm
CP-WX4022WN	WXGA / 4,000 Lm
CP-X5022WN	XGA / 5,000 Lm
REPLACEMENT LAMP	DT01171



MS-1 and MS-1WL Switchers

Switcher Accessories for Compatible Hitachi 3LCD Projectors

The MS-1WL Wireless Multifunctional Switcher operates in conjunction with the receiver to provide expanded source selection and switching options for connected devices. It offers a 10 input selector including computer, HDMI, USB, RGB, video, LAN and other connections. As a user option, the MS-1 is sold separately and offers all the functions of the MS-1WL with the exception of wireless operation. It connects to a Hitachi projector using an HDMI cable.

- Ten input selector—HDMI, USB, computer, video and LAN. Plus additional connections on back panel.
- MS-1WL is a simple wireless installation using the receiver or a wired installation using one HDMI cable.
- The MS-1 offered separately as a wired installation using one HDMI cable. Ten input selector—HDMI, USB, computer, video and LAN. Plus additional connections on back panel.

MS-1WL Key Features and Benefits

- Upon purchase of the MS-1WL, the WHDI transmitter comes equipped, inserted and already paired upon delivery.
- Built-in networking capabilities to allow for LAN connectivity, WiFi connectivity, PC-less presentations and more. Optional USB-WL-11N needed for WiFi connectivity.
- Can control switcher via RS232, IP, optional hard wired remote control or Hitachi's PJ Quick Connection (iPad® and iPhone®) utility, or top panel button access control for direct response.
- Top button access for switching control for simpler installs where you have switcher on desk or podium.
- Built-in microphone capabilities to connect directly to switcher to utilize with projector speakers.
- Many more innovative features from Hitachi projectors integrated into switcher.

HITACHI

Inspire the Next



Hitachi's iOS application Projector Quick Connection App offers simple control options including sending photo and document files and web site contents for the MS-1 and MS-1WL.





RLM-W8

WUXGA Installation Projector

Barco's RLM-W8 brings the saturated colors of 3-chip DLP™ projection to events and fixed installations, at the price of single-chip DLP™ technology.

With an enhanced contrast, quick and creative stacking options as well as built-in warping capabilities for curved surfaces, Barco's RLM-W8 is a versatile choice for mid- to large-sized venues. In addition, it features blending technology to create seamless composite images across a canvas of any size. The RLM-W8 continues the RLM line's tradition of silence as well as low energy consumption.

Barco's proprietary BarcoLink technology guarantees swift signal distribution between Barco's projectors and image processors. With BarcoLink, signals are distributed over a BNC coax cable, which is not only more durable but also enables lower costs.

- Brightness: 8,000 center lumens, 7,300 ANSI lumens
- Resolution: WUXGA (1920 x 1200)
- Contrast Ratio: 2,200:1

RLM-W6 WUXGA / 6,000 Lm

RESOLUTION	WUXGA (1920 x 1200)
BRIGHTNESS	8,000 Center Lumens (7,300 ANSI Lumens)
CONTRAST RATIO	3,000:1
DISPLAY TECH	DLP
WEIGHT	57.3 lbs
WARRANTY	3 Year Standard, 4th or 5th Year Optional
LAMP PART #	R9832752
SPECIAL FEATURES	3D ready (optional), Optional Lenses Available, Warping, BarcoLink, Low Noise, Low Energy, Web Control, 3-Chip DLP

*Bright, silent
and reliable*



RLM-W12

WUXGA Installation Projector



Thanks to its standard active 3D capabilities, low noise level and high light output, the cost-effective RLM-W12 is a perfect fit for fixed installation in conference auditoriums, lecture halls, and infotainment applications. Geared with an optional ceiling mount or stacking frame, the RLM-W12 can also be used for events. What's more, the RLM-W12 is equipped with TLD lenses, making it fully compatible with Barco's HDX and FLM projector families.

Barco's RLM projectors are the most silent projectors in their range. They remove the strain of working under a constant drone of projection equipment, and make the only noticeable thing about it its image quality.

The RLM consumes less power than comparable projectors. Today, as energy conservation is an important consideration, the RLM lowers energy bills and benefits environment.

- Brightness: 10,500 ANSI Lumens, Resolution: WUXGA (1280 x 1200)
- Contrast Ratio: 1,600:1
- Control over IP
- Standard active 3D
- Low power consumption
- Rental frame available

REPLACEMENT LAMP R9801087



HDQ-2K40

WUXGA Installation Projector



The world's brightest projector for the rental and staging industry, Barco's HDQ-2K40 ensures razor-sharp, ultra-bright images, guaranteeing an unequaled event experience on every occasion.

Thanks to its 40,000 lumens light output and 2K resolution, the top-of-the-line HDQ-2K40 displays stunning images combined with ultimate brightness and rich vibrant colors time after time. The HDQ is also equipped with Barco's high-end ImagePRO technology with Athena scaler for flexible scaling.

The HDQ-2K40 projector is also available with a light-on-demand option. Thanks to this technology, you can fully tune the light output of the projector to your event: it can be programmed to a light output of 26,000 lumens up to 40,000 lumens in 2,000 incremental steps. In this way, rental companies have more flexibility to offer their customers the light output they want.

- Brightness: 40,000 center lumens
- High-contrast 3-chip DLP™ engine
- 2K resolution (2048 x 1080)
- Xenon illumination
- ImagePRO technology inside (Athena scaler)
- Dual-core warp engine

REPLACEMENT LAMP R9855966



HDF-W26

WUXGA Installation Projector



The ultra-bright and reliable HDF-W26 projector is a perfect fit for any large venue or event that requires extra brightness to show clear, crisp images in a luminous environment.

Thanks to its 3-chip DLP technology, Xenon illumination and high-contrast optical engine, the HDF guarantees crisp images with rich colors on every occasion. What's more, it is fully ready to support 3D projection. It has also been equipped with Barco's high-end ImagePRO technology with Athena scaler for flexible scaling.

The HDF-W26 projector is also available with light-on-demand option. Thanks to this technology, you can fully tune the light output of the projector to your event: it can be programmed to a light output of 18,000 lumens up to 26,000 lumens in 2,000 incremental steps. In this way, rental companies have more flexibility to offer their customers the light output they want.

- Brightness: 26,000 center lumens, Resolution: WUXGA (1920 x 1200)
- Contrast ratio of 2400:1
- Xenon illumination
- ImagePRO technology inside (Athena scaler)
- Dual-core warp engine

REPLACEMENT LAMP R9854535



HDX-W18

WUXGA Large Venue Projector



Barco's compact and powerful HDX-W18 projector combines full source flexibility with ImagePRO scaling capabilities. Thanks to its Xenon illumination and high contrast optical engine this 3-chip DLP projector reproduces rich colors, presenting audiences with crisp and vivid images on every occasion. What's more, the simple user interface allows you to set up the projector in no time. Finally, the HDX-W18 offers easy control through smartphones and tablet computers.

The HDX-W18 has a native 3G HD-SDI/SDI input, which makes it compatible with progressive sources over a single BNC cable. This also means that the HDX-W18 allows for digital inputs that don't come through fragile DVI fiber cables.

- Brightness: 17,500 ANSI Lumens, Resolution: WUXGA (1920 x 1200)
- Contrast Ratio: 1,700:1
- 3D Ready
- Wireless control
- Native 3G HD-SDI/SDI input

HDX-W12 12,000 Lm

HDX-W14 14,000 Lm

REPLACEMENT LAMP R9864130



BenQ MW870UST

WXGA Interactive Projector



- Native WXGA (1280 x 800) Resolution
- 3000 ANSI Lumens, 2600:1 Contrast Ratio
- 0.37" Throw Ratio, Supports PointDraw™ Dual Pen
- USB Display & Reader, LAN Control & Display
- 3D Ready, Wireless Display (Optional)

REPLACEMENT LAMP..... N/A



BenQ MW821ST

WXGA Ultra Short Throw Projector



- Native WXGA (1280 x 800) Resolution
- 3000 ANSI Lumens, 13,000:1 Contrast Ratio
- 0.49" Short Throw Ratio, 10W Speaker
- LAN Control; Smart Eco Mode
- DLP 3D Ready; Long lamp Life

REPLACEMENT LAMP..... 5J.J8E05.001



BenQ MW663

WXGA Portable Projector



- Native WXGA Resolution (1280x800)
- 3000 ANSI Lumens; 13,000:1 Contrast Ratio
- SmartEco™ Power Saving Technology, Instant Restart
- DLP® 3D via PC & Blu-Ray/DVD Player
- Wireless display with QPresenter App

REPLACEMENT LAMP..... 5J.J8J05.001



BenQ MX819ST

XGA Short Throw Projector



- Native XGA (1024 x 768) Resolution
- 3,000 ANSI Lumens, 13,000:1 Contrast Ratio
- SmartEco™ Power Saving Technology
- 0.61 Short Throw Ratio
- LAN Control; HDMI, 10W Speaker

REPLACEMENT LAMP..... 5J.J9A05.001



BenQ MX661

XGA Portable Projector



- Native XGA (1024 x 768) Resolution
- 3,000 ANSI Lumens, 13,000:1 Contrast Ratio
- Wireless Display by MX661 QPresenter App
- LAN Control; HDMI, Speaker 2W x 1
- USB Display & Reader
- PC-less Presentation through Office Viewer

REPLACEMENT LAMP..... 5J.J8F05.001



BenQ MW767

WXGA Portable Projector



- Native WXGA (1280 x 800) Resolution, HD Ready
- 4200 ANSI Lumens, 13,000:1 Contrast Ratio
- Portable at only 8.59 lbs
- HDMI, Auto Keystone and 3D Ready

REPLACEMENT LAMP..... 5J.J6R05.001



BenQ MW519

WXGA Portable Projector



- Native WXGA Resolution (1280 x 800)
- 2800 ANSI Lumens; 13,000:1 Contrast Ratio
- Smart Eco Mode; Long Lamp Life
- HDMI; Closed Captioning
- Portable at only 5.06 lbs

REPLACEMENT LAMP..... 5J.J6L05.001



BenQ MX518

XGA Portable Projector



- Native XGA (1024 x 768) Resolution
- 2800 ANSI Lumens, 13,000:1 Contrast Ratio
- BrilliantColor™, Long Lamp Life
- HDMI equipped and 3D Ready
- Virtually Color Decay Free; SmartEco™
- Portable at only 5.06 lbs

REPLACEMENT LAMP..... 5J.J6L05.001



BenQ MX662

XGA Portable Projector



- Native XGA (1024 x 768) Resolution
- 3500 ANSI Lumens, 13,000:1 Contrast Ratio
- 2W Speaker, HDMI
- Only 6.06 lbs, USB Display/Reader
- DLP 3D Ready, Wireless Display (Optional)

REPLACEMENT LAMP..... 5J.J6E05.001



BenQ MX766

XGA Installation Projector



- Native XGA (1024 x 768) Resolution
- 4000 ANSI Lumens, 13,000:1 Contrast Ratio
- LAN Control/Display; USB Reader/Display
- DLP 3D Ready, Wireless Display (Optional)

REPLACEMENT LAMP..... 5J.J6R05.001



BenQ SH960

Full HD Installation Projector



- Native Full HD (1920 x 1080) Resolution
- 5500 ANSI Lumens, 3000:1 Contrast Ratio
- Dual Lamp Design; HQV™
- 1.5x Big Zoom, HDMI, H+V Lens Shift
- LAN Control, 2D Keystone

SH940..... Full HD / 4000 Lm

REPLACEMENT LAMP..... 5J.J4L05.001



BenQ MX722

XGA Portable Projector



- Native XGA (1024x768) Resolution
- 4,000 ANSI Lumens, 5,300:1 Contrast Ratio
- Instant Restart, EcoBlank
- Various 3D Format Support
- LAN control and LAN display function

REPLACEMENT LAMP..... 5J.J6N05.001



BenQ W1080ST

Full HD Home Theater Projector



- Native Full HD (1920 x 1080) Resolution
- 2000 ANSI Lumens, 10000:1 Contrast Ratio
- Short Throw up to 65"
- Dual HDMI, DLP & NVIDIA® 3D Ready
- Warranty: 1-Year or 1500 Hrs of lamp life

REPLACEMENT LAMP..... 5J.J7L05.001



BenQ W1070

Full HD Home Theater Projector



- Native Full HD (1920 x 1080) Resolution
- 2000 ANSI Lumens, 5000:1 Contrast Ratio
- 10W Speaker, Long Lamp Life
- Dual HDMI, Digital Zoom 2x
- Auto Keystone, Quick Cooling, Variable Audio Out

REPLACEMENT LAMP..... 5J.J5405.001



BenQ W770ST

WXGA Home Theater Projector



- Native WXGA (1280 x 720) Resolution
- 2500 ANSI Lumens, 13000:1 Contrast Ratio
- 10W Speaker, SRS WOWHD™
- Dual HDMI, Auto Keystone

REPLACEMENT LAMP..... 5J.J4G05.001



BenQ MW820ST

WXGA Portable Projector



- Native WXGA (1280x800) Resolution
- 3,000 ANSI Lumens, 13,000:1 Contrast Ratio
- SmartEco™ Power Saving Technology
- 0.49 Short Throw Ratio
- LAN Control; HDMI, 10W Speaker

REPLACEMENT LAMP..... 5J.J9A05.001



Who is DIGITAL PROJECTION

A digital imaging pioneer, industry leader, and Emmy award winner, Digital Projection International (DPI) manufactures and distributes an extensive and expanding line of ultra high-performance 3-chip and single-chip DLP® projection systems.

These projectors are the reference standard for demanding applications such as large-venue, live-event staging, Fortune 5000, homeland security, education, medical and scientific research, command and control, digital cinema, commercial entertainment, worship and elite home cinema.

Multiple company accolades include two Emmy® Awards for Outstanding Achievement in Engineering Development by the Academy of Television Arts and Sciences. DPI remains the first and only projector manufacturer to win the coveted award.



Pro Series 3

DP's powerful and efficient 3-chip displays present the most unified line of DLP® projectors available today. Recognized around the world as the industry's brightest and most advanced displays, DP's TITAN, LIGHTNING and HIGHlite projectors continue to deliver new capabilities and new technological advances.

Innovative technologies such as ColorMax™ and CoolTek™ engineering ensure DP's 3-chip DLP® displays deliver consistently awe-inspiring imaging, while also performing with class leading lumen-per-watt efficiency. DP's exclusive RapidRig™ system, standard on LIGHTNING models and optional on TITAN models, enables tool-free stacking and flying of projectors, with integrated pitch, roll and yaw adjustments.

TITAN Pro Series 3

Large Venue Projectors



At the heart of every TITAN & LIGHTNING Pro Series 3 display lies DPI's newly developed electronics - a high quality re-sizing engine and signal-processing unit that precisely maps every input source to the native resolution of the DMDs. Every TITAN & LIGHTNING Pro Series 3 model incorporates Fusion-Express and MultiBlend, providing advanced warp and blend capabilities. Furthermore, 3D capability is either standard or available as an option for every TITAN & LIGHTNING model.



- 49 models available
- Lumen Range: 3,000 - 20,000 ANSI Lumens

- Resolution: SXGA+, Full HD, WUXGA
- Some models include advanced Warp & Blend

TITAN 330 & 660 (2 REQUIRED) REPLACEMENT LAMP 111-258

TITAN 800 (2 REQUIRED) & QUAD 3D (4 REQUIRED) LAMP 111-896



LIGHTNING Pro Series 3

Large Venue Projectors



As DP's brightest and most advanced displays, LIGHTNING Pro Series 3 projectors are the flagships of their product line. Designed for the rigors of large-venue installations and staging, they excel in their rugged construction, stellar performance, quiet operation and low relative cost of ownership.

Employing all of the new Pro Series 3 features, an intelligent lens mount and RapidRig™ frame, the LIGHTNING Pro series is the most capable and easily deployable large venue powerhouse ever conceived. In fact, every LIGHTNING model provides active 3D, 120 Hz frame rate compatibility.



- 9 models available, including 3D models
- Lumen Range: 10,000 - 30,000 ANSI Lumens

- Resolution: SXGA+, Full HD, WUXGA
- Every model features Active 3D

LIGHTNING PRO 30 SERIES REPLACEMENT LAMP 103-238

LIGHTNING PRO 40 SERIES REPLACEMENT LAMP 104-578



HIGHlite Cine Series

Large Venue & Home Theater Projectors



Introducing the new HIGHlite Cine series: visually stunning, economically priced, compact and quiet displays for medium to large screen applications. With the HIGHlite Cine series, 3-chip DLP® imagery is now available at a value price point never before achieved.

The highest quality optics, including fixed and zoom lenses, accommodate throw ratios from .7: 1 up to 5.0:1, providing tremendous. Installation is incredibly flexible due to the HIGHlite's compact and lightweight chassis design, and extraordinary lens shift range of 30% horizontal and 120% vertical. Connectivity includes a diversity of digital and analog inputs with a variety of control options. Dual lamp HIGHlite models even include Warp and Blend. Select models include advanced 3D capabilities.



- 8 models available
- Lumen Range: 2,000 - 8,000 ANSI Lumens

- Resolution: Full HD, WUXGA
- Contrast: Up to 20,000:1

HIGHLITE CINE 260 SERIES REPLACEMENT LAMP 110-025

HIGHLITE CINE 660 SERIES REPLACEMENT LAMP (2 REQUIRED) 111-100



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Vision Series

Considering their powerful performance, compact forms and high application value, Digital Projection's line of single-chip projectors represents the most cost effective imaging tools available today. Engineering advancements can be found throughout these products, including BrilliantColor™ and ColorMax™, which ensure long-term color fidelity.

With UHP and LED lamp options, as well as select models with active-3D capability, DP's single-chip lineup delivers a perfect display solution for any small to medium scale imaging need.

Additionally, their compact size, light weight and optional ceiling mounts ensure both installation flexibility and ease of use. DP's single-chip displays excel in applications such as corporate boardrooms, training/education venues, retail/entertainment, visualization/simulation, and dynamic home cinema.

dVision Series

Multi-Venue Projectors



Equipped with dual color wheels and a hot-swappable dual-lamp system, elegantly designed dVision projectors suit most any small-to-medium venue needing bright, saturated imagery. Seven quick change lens options and an unmatched range of vertical and horizontal lens shift provide extensive installation flexibility.



A motorized lens aperture, lamp power settings and ColorMax™ calibration enable customization of contrast, light output and color performance to suit the specific needs of an application. Lamp life up to 6,000 hours or lifetime illumination provided by dVision LED models assures a remarkably low long-term cost of ownership.

- 12 Lamp models available
- 3 LED models available
- 3 color wheel options
- Lumen Range: 1,100 - 8,000 ANSI Lumens
- Resolutions: SXGA+, Full HD, WUXGA, WQXGA
- 3D Capable Models Available

DIVISION REPLACEMENT LAMP (2 REQUIRED) 109-3874



iVision Series

Remarkably Compact Projector Line



Incredibly bright for their size, the iVision product line presents compelling solutions to any integrator seeking a bright, flexible and extraordinarily compact precision display. ColorMax™ calibration technology ensures iVision displays can be quickly benchmarked for color alignment.



All iVisions employ sealed optics, preventing airborne contaminants from affecting sensitive components and ensuring image quality is maintained for the long-term. Available in both fixed and zoom lens configurations, the iVision 20 series features vertical lens shift, delivering even more installation flexibility. Active-3D capable iVision 30 models are also available for small screen 3D applications.

- 45 models available, including 3D models
- 4 color wheel options
- Lumen Range: 1,400 - 3,900 ANSI Lumens
- Resolutions: WXGA, Full HD, SXGA+, WUXGA

IVISION 20 SERIES REPLACEMENT LAMP 109-688
IVISION 30 SERIES REPLACEMENT LAMP 109-689



M-Vision Series

Full HD Multi-Venue Projectors



The M-Vision series is available in both lamp-based and LED illuminated platforms. Remarkably affordable and efficient, yet powerful in their imaging fidelity, the lamp-based M-Visions produce high lumens, deep contrast and accurate color. The LED illuminated M-Visions offer tens of thousands of hours of LED lamp life, while producing the lush color saturation and color gamut previously achievable only from DP's 3-chip DLP® displays. Numerous connectivity options include two HDMI inputs, as well as RGB via D-15, component, composite and S-Video inputs. The compact and lightweight M-Vision series is ultra quiet, can be ordered with a variety of lens options and includes extensive lens shift, making it a versatile, powerful choice for any small to medium projection venue.



- 5 Lamp models available, including 3D models
- 3 LED models available
- Lumen Range: 600 - 5,500 ANSI Lumens
- Resolutions: Full HD, WUXGA (LED only)

M-VISION 230 SERIES REPLACEMENT LAMP 111-146
M-VISION 260 SERIES REPLACEMENT LAMP 109-682
M-VISION 400 & 3D SERIES REPLACEMENT LAMP 111-150
M-VISION LED SERIES LED ILLUMINATION MODULE 109-683



E-Vision Series

High-Value Projector Line



The E-Vision series brings an unprecedented high brightness, cost effective projector option to commercial AV customers. E-Vision projectors are remarkably affordable displays with the imaging fidelity of Texas Instruments' DLP® technology.



Fixed and zoom lens options give the E-Vision series a throw ratio range of .77:1 – 8.3:1. Easy to change color wheels allow the user to customize the E-Vision's performance to produce the best balance of lumens and color saturation for their application. E-Vision displays continue DP's legacy of producing powerful, efficient projectors suited for every commercial application imaginable.

- 4 models available
- 2 color wheels included
- Lumen Range: 6,000 - 8,000 ANSI Lumens
- Resolutions: WXGA, 1080p, WUXGA

E-VISION 6000 SERIES LAMP & HOUSING (2 REQUIRED) 110-284
E-VISION 8000 SERIES LAMP & HOUSING (2 REQUIRED) 112-531





InFocus IN3128HD

Part of the N3120 Series
Full HD Office/Classroom Projector

The InFocus IN3120 projector series provides conference rooms or classrooms with a powerful, vivid, and reliable display solution. The InFocus IN3120 projector series has many connectivity options for easy setup and to accommodate the applications any team needs.

WHY CHOOSE THE IN3128HD? HD is moving out of the house and into a conference room or classroom near you. 1080p resolution is THE standard for high quality media and movies. The InFocus IN3128HD 1080p projector displays today's true high definition content and its high resolution is the perfect match for today's 16:9 notebooks. It beams detailed content with 4,000 lumens of brightness at work or school.

The IN3128HD brings 1080p resolution from the home to the office and classroom. Now HD content that was originally created for the home HD television can be shared in your conference room or classroom as it was intended. No scaling. No manual image adjustments. Just crisp, bright, vivid, HD content.

The IN3128HD beams 4,000 lumens of output for crisp, clear images in conference rooms or classrooms with high ambient light. So keep the lights on and the audience alert.

RESOLUTION	Full HD (1920 x 1080)
BRIGHTNESS	4,000 Lumens (3,400 Eco)
CONTRAST RATIO	3,000:1
DISPLAY TECH	DLP
WEIGHT	8.1 lbs
WARRANTY	2 Years
LAMP PART #	SP-LAMP-078
SPECIAL FEATURES	Closed Captioning, HDMI Compatible, DisplayLink™, BrilliantColor™



Also in this Series

IN3124	XGA / 4,800 Lm
IN3126	WXGA / 4,000 Lm

Comprehensive connectivity and power for collaboration



InFocus IN5130 Series

Large Venue Projectors

The InFocus IN5130 Series of 3LCD projectors are easy to install, easy to use, and provide stunning performance for a great price. Three resolution choices, high brightness, four optional lenses, and motorized lens shift, focus, and zoom are all packed into this projector's slim frame.

Plus, a wealth of connectivity options and great features such as motorized lens shift, lens shift memory, and instant stack, make it easy to either double the brightness or add a fail-safe backup.

Enjoy additional flexibility in projector placement from small conference rooms to large auditoriums with the IN5130 projectors' four optional lenses. From ultra-short throw to ultra-long throw, changing lenses is fast and easy.

RESOLUTION	XGA, WXGA, WUXGA
BRIGHTNESS	4,000 - 5,000 Lumens
CONTRAST RATIO	3,000:1
DISPLAY TECH	3LCD
WEIGHT	18.5 - 19 lbs
WARRANTY	2 Years Limited
LAMP PART #	SP-LAMP-080
SPECIAL FEATURES	SplitScreen Projection, Instant Stack, Motorized Lens Shift, Durable Inorganic Optics, DICOM Simulation Mode, Four Optional Lenses, Lens Shift Memory, Crestion and AMX Ready, ProjectorNet 3.1 Software



- Up to 5000 lumens for sharp, seamless images in high ambient light
- Full range of resolutions including WUXGA
- Four optional lenses to fine-tune projection
- Comprehensive connectivity and control
- Latest inorganic LCD technology for years of worry-free use without image degradation
- SplitScreen (except IN5132) and Instant Stack features
- Full motorized lens shift and focus/zoom
- Up to 4000-hour lamp and 15,000 hour filter for extra long life



Available in this Series

IN5132	XGA / 5,000 Lm
IN5134	WXGA / 4,000 Lm
IN5135	WUXGA / 4,200 Lm

Also Available: IN5140 Series

IN5142	XGA / 6,000 Lm
IN5144	WXGA / 5,500 Lm
IN5145	WUXGA / 5,000 Lm

Large venue LCD projectors with high performance, versatility and value



InFocus**IN110 Series**

Lightweight Office/Classroom Projectors

Unbelievable low price.
Unbeatable value.



The InFocus IN110 Series are not only some of the lowest cost projectors InFocus offers, but also have one of the longest-lasting lamps – for incredibly low total cost of ownership. These value-packed projectors are easy to buy and built to perform with high brightness, high contrast ratio and BrilliantColor™ technology. Plus, their slim, compact design and light weight make them as easy to move around as they are to install.

Priced right! Save now and in the future

The ultra-low purchase price is just the beginning – the lamp is long-lasting and there are no filters to replace.

- Eco Mode, ideal for low-light situations, extends lamp life and uses less energy
- Average lamp life is 6,000 hours when in Eco Mode and 5,000 hours in normal mode (lamp life varies by model)

Count on quality with top-notch image technology

Even at low prices these projectors are made to last and backed by a 2-year parts and labor warranty.

- Quality images and true-to-life colors with DLP® technology with InFocus BrilliantColor™ implementation
- 3D-ready: project 3D content to improve learning and retention of complex concepts

Easy to maintain, no filters to buy, clean, or replace

The IN110 series of projectors are easy to maintain because there are no filters to buy or replace.

- Rated for 24/7, non-stop operation
- Lamp door is on top for easy lamp replacement when the projector is installed

Small and light; easy to share or install

Their small size and light weight make these projectors easy to move from room to room.

InFocus IN112	InFocus IN114	InFocus IN116
<ul style="list-style-type: none"> • SVGA (800 x 600) • 2,700 lumens • 4,000:1 Contrast • 4.8 lbs • 2 Years Parts and Labor • Lamp # SP-LAMP-069 	<ul style="list-style-type: none"> • XGA (1024 x 768) • 2,700 lumens • 4,000:1 Contrast • 4.8 lbs • 2 Years Parts and Labor • Lamp # SP-LAMP-069 	<ul style="list-style-type: none"> • WXGA (1280 x 800) • 2,700 lumens • 4,000:1 Contrast • 4.8 lbs • 2 Years Parts and Labor • Lamp # SP-LAMP-069

**InFocus****IN120 Series**

Lightweight Office/Classroom Projectors

Huge brightness for an
unbelievable low price



The InFocus IN120 Series offers high brightness at a low price point. These are the lowest-cost projectors InFocus offers at this high brightness. These value-packed projectors are easy to buy and built to perform. In addition to high brightness, they have an HDMI input, a high contrast ratio, BrilliantColor™ technology, and a slim, lightweight design that makes them easy to move or install.

Low Total Cost of Ownership

The IN120 Series has not only a ultra-low purchase price, but also a long-lasting lamp that lowers total cost of ownership even further. There aren't even any filters to replace. It's an unbeatable value.

Resolution Options

Choose from native resolution of SVGA for the best price, XGA for better image detail and clarity, or widescreen WXGA resolution for projecting high-definition video and wide laptop screens without scaling.

Compact, Slim and Light

The IN120 Series is small and lightweight for easy portability from one room or building to the next. Its slim design is only 2.7 in (70 mm) tall and weighs only 4.8 lbs (2.17 kg).

High Brightness and High Contrast

The image quality of these projectors will not disappoint. 3,200 lumens will give bright, clear images with the lights on and the high 4,000:1 contrast ratio adds sharpness with darker blacks and whiter whites. Preset modes give the best image quality on a beige wall, whiteboard, blackboard or other surface.

InFocus IN122	InFocus IN124	InFocus IN126
<ul style="list-style-type: none"> • SVGA (800 x 600) • 3,200 lumens • 4,000:1 Contrast • 4.8 lbs • 2 Years Parts and Labor • Lamp # SP-LAMP-070 	<ul style="list-style-type: none"> • XGA (1024 x 768) • 3,200 lumens • 4,000:1 Contrast • 4.8 lbs • 2 Years Parts and Labor • Lamp # SP-LAMP-070 	<ul style="list-style-type: none"> • WXGA (1280 x 800) • 3,200 lumens • 4,000:1 Contrast • 4.8 lbs • 2 Years Parts and Labor • Lamp # SP-LAMP-070

**InFocus****IN1100 Series**

Ultra-lightweight Portable Projectors

So small, light and bright, it's the
perfect mobile projector



The InFocus IN1110a and IN1112a portable projectors have the small size, light weight, high brightness and ease of use that mobile professionals need to communicate effectively at a moment's notice, wherever they may be. At up to 2,200 lumens projections will be clear and stunning in any light. Plus, its HDMI input will provide fast connectivity and stunning detail from digital devices.

Why Choose the IN1100 Series?

- Compact and light weight (only 2.7 lbs) for easy travel
- Up to 2,200 lumens of brightness to overcome any lighting situation
- HDMI input to connect with iPads, iPhones, Android and PCs
- Durable design that's built for the road
- Widescreen model to match today's laptop screens

Connect Fast

Connect via HDMI to present full HD quality video and audio) in just seconds. VGA, S-Video and Composite Video ports are also included for when the need arises.

Built for the Road

The IN1110a/IN1112a projector has a recessed lens and tethered lens cap to keep it safe from impact. Plus, its smooth exterior leaves nothing to snag or break off when taking it in and out of its case. The IN1100 Series' durability is backed by a 2-year parts and labor warranty, so you know it's tough and ready to perform on the road.

Easy Display from Any Device

Mobile apps presenting Office docs, PDFs, photos, video, audio, and even a live video feed from your iPad, iPhone, or Android tablet or smartphone.



InFocus IN1110a	InFocus IN1112a
<ul style="list-style-type: none"> • XGA (1024 x 768) • 2,100 lumens • 2,600:1 Contrast • 2.7 lbs • 2-Year Parts and Labor • Lamp # SP-LAMP-043 	<ul style="list-style-type: none"> • WXGA (1280 x 800) • 2,200 lumens • 2,600:1 Contrast • 2.7 lbs • 2-Year Parts and Labor • Lamp # SP-LAMP-043



JVC
PROFESSIONAL
REFERENCE SERIES

JVC Professional Reference Series projectors are designed for custom integration and are carried by an exclusive network of custom audio/video installers who can design and build a home theater tailored to each customer's unique needs.

Universal Specifications

Every single JVC Professional ReferenceSeries projector comes with the following features.

- 1080p Three Chip 3D Enabled D-ILA Projection
- **NEW!** 230 Watt NSH Illumination System (improves lamp life to 4,000 hours in normal mode)
- 1.4 to 2.8:1 motorized zoom lens with Horizontal & Vertical Offset
- Highly customizable built-in 2D to 3D converter creates dynamic 3D images from 2D video content
- **Control:** LAN / RS-232C / IR / 12 V Screen Trigger Output / New remote control with 3D functions

JVC
PROFESSIONAL

DLA-RS66U *REFERENCE SERIES*

4K Premium Home Theater Projector

The DLA-RS66U is JVC Professional's top-of-the-line D-ILA home theater projector. Upgraded for 2013, it displays master-quality 3D as well as 2D material upconverted to 4K resolution, made possible by JVC Professional's new 4K e-Shift2 technology. Built from hand selected perfectly matched components and a new wire grid polarizer, the DLA-RS66U achieves a native contrast ratio of 130,000:1. Overall picture quality and build quality are unmatched in the industry. This is the projector by which all others will be judged.

- 4K e-Shift2 (3840 x 2160) 4K Precision
- Superior native contrast ratio 120,000:1
- THX and ISF Certified
- Minimized crosstalk for brighter, more realistic 3D picture
- Built-in 2D to 3D converter creates dynamic 3D images from 2D video content
- 101 Screen Adjustment Modes for color optimization on various screen types
- Ten Lens Memories to enable constant height installations without an external lens

RESOLUTION	1920 x 1080
CONTRAST RATIO	130,000:1
DISPLAY TECH	D-ILA
WARRANTY	3 Years
LAMP PART #	PK-L2312U
SPECIAL FEATURES	3D Enabled, e-Shift Projection, 2 Pair 3D glasses and 3D IR emitter included, THX and ISF Certified, Motorized lens cover



WHAT IS D-ILA®

D-ILA is a JVC-developed technology that delivers unmatched performance, with natural color reproduction, an image so smooth that it rivals film, and contrast that does justice to the most demanding program material.

All JVC projectors are based on D-ILA technology.

D-ILA, or Direct-Drive Image Light Amplification, is liquid crystal technology, but it's very different from the liquid crystal display (LCD) technology found in many products today. There is very little space between D-ILA pixels, which results in an exceptionally smooth, "film-like" image.



*4K Precision & 130,000:1
Contrast Ratio Ensure
Natural & Realistic Images*



Also Available in the JVC ReferenceSeries

JVC DLA-RS56U

High End Home Theater Projector

The DLA-RS56U, upgraded for 2013, is JVC Professional's most affordable fully-featured home cinema projector. Equipped with JVC Professional's new e-Shift2 technology, HD material is upconverted to a stunning 3840 x 2160 resolution with superb contrast and clarity. 3D images are brighter than ever with negligible crosstalk.

- **Native Contrast Ratio 90,000:1**
- Optional 3D Glasses and 3D Emitter
- 4K e-Shift2 (3840 x 2160) 4K Precision
- Lens Memory Positions: 10
- THX 3D Display and ISF Certified
- 2 Year Warranty

REPLACEMENT LAMP..... PK-L2312U



JVC DLA-RS48U

Media Room Projector

The DLA-RS48U is an all-new, affordable upconverting 4K D-ILA projector. It features e-Shift2 technology, JVC Professional's Color Management System, outstanding 3D performance and 5 lens memory presets--all with a native contrast ratio of 50,000:1.

- **Native Contrast Ratio 50,000:1**
- Optional 3D Glasses and 3D Emitter
- 4K e-Shift2 (3840 x 2160) 4K Precision
- Lens Memory Positions: 5
- 2 Year Warranty

REPLACEMENT LAMP..... PK-L2312U



JVC DLA-RS46U

Entry Level Projector

The DLA-RS46U is a perfect entry into industry leading home theater performance boasting a native contrast ratio of 50,000:1. With a new illumination system for 2013, renowned D-ILA image quality and a host of new features, the DLA-RS46U is unquestionably JVC Professional's best value 3D projector to date.

- **Native Contrast Ratio 50,000:1**
- Optional 3D Glasses and 3D Emitter
- Lens Memory Positions: 5
- 2 Year Warranty

REPLACEMENT LAMP..... PK-L2312U





NEC NP-PH1400U PH Series

WUXGA Installation Projector

Powerful installation projector that delivers quality, larger-than-life images

NEC's 14000 center screen lumen PH1400U professional installation projector offers a unique 3-chip DLP system that creates quality, larger-than-life images under virtually any operating condition to take on the most demanding integration projects. Perfect for large venues or high ambient lighting conditions, it supports multiple input cards and includes Open Pluggable Specification (OPS), the first industry-wide standardization in option slots to simplify installation, use and maintenance while offering input flexibility. Its Integrated Device Technology HQV™ is a high-performance video processing/scaling system designed for computer signals, standard or high-definition video. The PH1000U is ideal for higher education, house of worship, corporate and retail environments.

RESOLUTION	WUXGA (1920 x 1200)
BRIGHTNESS	14,000 ANSI Lumens
CONTRAST RATIO	2,000:1
DISPLAY TECH	DLP
WEIGHT	87.1 lbs
WARRANTY	3 Years
LAMP PART #	NP-25LP
SPECIAL FEATURES	ECO Mode™ technology, Built-in stacking correction, PIP/Side-by-Side, 2000 hour filter life, Built-in wall color correction presets, Edge blending, DisplayPort, Open Pluggable Specification

- 3-chip DLP with dual UHP lamps
- HD/SD SDI input card using OPS technology
- Stacking correction capabilities (up to four projectors) allows the projectors to boost an image's brightness up to 56,000 lumens
- Complete line of (5) bayonet-style lenses with built-in lens memory, powered zoom, focus and lens shift
- HQV™ technology delivers superior home theater video processing
- Integrated RJ-45 and/or optional wireless LAN quickly connects to the LAN for control or image transmission



NP-PH1000U WUXGA / 11,000 Lm (Lamp NP-22LP)

NEC NP-PA500U PA Series

WUXGA Installation Projector



Present with carefree ease using NEC's 5000 lumen PA500U. This reliable model is designed for advanced professional installations and appeals corporate and higher education users. The industry's first built-in stacking correction capabilities allows the projectors to boost an image's brightness up to 20,000 lumens, which is ideal for larger-sized screens and environments with heavy ambient light. This feature also prevents the complete loss of an image, which can happen when using only one projector.

- 5000 ANSI Lumens, WUXGA Native Resolution
- 2,000:1 Contrast Ratio
- HQV™ tech delivers superior home theater video
- Geometric Correction Tool allows you to easily project square images on non-flat screen surfaces
- AutoSense™ automatically syncs with any computer signal and features one-touch image optimization
- 5 bayonet-style lenses allows for quick and easy lens exchange (Lens does not ship with product)
- Stacking correction capabilities (up to four projectors) allows the projectors to boost an image's brightness up to 20,000 lumens
- Available as a bundle with lens (NP-PA500U-13ZL)

NP-PA550W WXGA / 5,500 Lm
NP-PA500X XGA / 5,000 Lm
NP-PA600X XGA / 6,000 Lm

REPLACEMENT LAMP NP21LP

NEC NP-PE401H PE Series

Full HD Installation Projector



A powerhouse projector packed with essential features, NEC's PE401H is designed for conference and class rooms utilizing the latest 1080p DLP chip set from TI. This model is affordable with essential features, including 3D Ready technology on the HDMI inputs, high-contrast images (2000:1) from the latest Texas Instruments DLP engine featuring BrilliantColor™ technology with improved color accuracy. A flexible input panel, color-coded and clearly labeled, connects peripherals using VGA, Dual HDMI, and composite inputs.

- 4,000 ANSI Lumens
- Native 1080p (1920 x 1080) resolution
- 2,000:1 Contrast Ratio
- Brilliant Color™ technology advanced video processing from Texas Instruments
- Intelligent Driving Scheme (IDS2) technology has been adopted to extend the lamp life of the projector up to 3300 hours in ECO Mode and 2500 hours normal
- ECO mode technology extends lamp life, lowers audible noise and reduces total cost of ownership
- Built-in closed captioning
- Kensington lock slot
- 10-step image magnification

REPLACEMENT LAMP NP24LP

NEC NP-P451W P Series

WXGA Installation Projector



Give presentations a boost in brightness with the NEC P451W, a widescreen entry-level professional installation projector loaded with eco-friendly and advanced technologies. Ideal for corporate boardrooms, higher education classrooms and government training rooms, this model delivers remarkable brightness (4500 lumens) and features built-in wall color correction, and up to 6000 hours of lamp life (in ECO Mode™). The P451W touts an active lens cover, which hides content, mutes audio and lowers lamp brightness to 25%, allowing you to maximizing the effectiveness of presentations.

- 4,500 ANSI Lumens, WXGA Resolution
- 4000:1 Contrast Ratio
- Four audio inputs make it easy to add sound
- Powerful 16W speakers
- Built in cornerstone correction including Pincushion and Barrel correction, 6000 hour filter drastically reduces cleaning frequency, thereby decreasing the total cost of ownership
- Vertical lens shift for flexible projector placement
- IEU Lite (Image Express Utility Lite) for audio and video transmission from a computer to the projector over the network

NP-P401W WXGA / 4,000 Lm
NP-P451X XGA / 4,500 Lm
NP-P501X XGA / 4,500 Lm

REPLACEMENT LAMP NP-23LP

NEC NP-PX700W PX Series

WUXGA Installation Projector



The 7000 lumen NEC PX700W is a professional installation projector with dual lamps that provide intense light output. The PX Series features the Open Pluggable Specification (OPS) technology, which is the first industry-wide standardization in option slots to simplify installation, use and maintenance, while offering input flexibility. Its edge blending functionality enables seamless blending of multiple projected images to display a single high-resolution image, while the lens shift capability provides greater installation flexibility with 50% vertical lens shift and +/- 10% horizontal lens shift.

- 7,000 ANSI Lumens, WXGA Resolution
- 2,100:1 Contrast Ratio
- HD/SD SDI input card using OPS technology
- Stacking correction capabilities (up to four projectors) allows the projectors to boost an image's brightness up to 28,000 lumens
- 6 bayonet-style lenses with built-in lens memory, electronic zoom, focus and lens shift
- HQV™ technology delivers superior home theater video processing
- Crestron RoomView Connected™
- Integrated RJ-45 and/or wireless LAN quickly connects to the LAN for control or image transmission

NP-PX800X XGA / 8,000 Lm
NP-PX750U WUXGA / 7,500 Lm

REPLACEMENT LAMP NP22LP



NEC NP-V300W V Series

WXGA Portable Projector



The widescreen NEC V300W is designed to provide higher brightness for classrooms, meeting and conference rooms that have heavy ambient light but require a small projector. This 3000 lumen lightweight mobile model is 3D Ready and includes a 7W speaker, closed captioning and NEC's Virtual Remote control software. Its VIDI technology is a Philips innovation designed to work in conjunction with the color wheel, using a brilliant pulse to increase the brightness of the image and a dark pulse to increase the contrast ratio. Enhanced connectivity, including HDMI, dual computer inputs and RJ-45, are clearly color-coded and labeled on the panel.

- Automatic Power ON via RGB (15-pin) input
- BrilliantColor™, including a 6-segment color wheel, provides accurate color reproduction
- Quick startup/cooling/shutdown minimizes projector setup and tear-down between meetings
- ECO Mode™ helps extend lamp life and lowers power consumption
- HDMI input connects you to high-definition sources
- Dual computer inputs ensure quick switching between presentations
- Crestron RoomView Connected™ provides unified management, including the ability to switch the power on and off for multiple projectors connected to a network

NP-V300X XGA / 3,000 Lm

REPLACEMENT LAMP NP-18LP



NEC NP-VE281 VE Series

SVGA Portable Projector



NEC's VE281 mobile projector is designed to provide high brightness for small-to-medium-sized businesses, education environments, corporate conference rooms and mobility applications where heavy ambient light is present but the space requires a small projector.

This lightweight model is affordable with essential features, including 3D Ready technology, high-contrast images and a powerful 7W speaker. Its automated technologies—from Auto Power On and quick startup/shutdown to a lamp life up to 6000 hours—make it an eco-friendly choice. The VE281 offers the Intelligent Driving Scheme (IDS2) for increased lamp life and contrast.

- Automatic Power ON via RGB (15-pin) input
- BrilliantColor™, including a 6-segment color wheel, provides accurate color reproduction
- Quick startup/cooling/shutdown minimizes projector setup and tear-down between meetings
- ECO Mode™ technology helps extend lamp life and lowers power consumption
- Carbon savings meter calculates the positive effects of operating the projector in ECO Mode
- Compact size and lightweight design simplify transport

NP-VE281X XGA / 2,800 Lm / 4 Year Warranty

REPLACEMENT LAMP NP15LP



NEC NP-M300WS M Short Throw Series

WXGA Short Throw Projector



Seamless presentations are possible using the NEC M300WS, a wide-screen, value-driven and eco-friendly portable projector. This model delivers an ideal short throw distance solution for education (including interactive whiteboards) and corporate applications, and offers 3000 lumens to deliver remarkably bright images. With advanced connectivity, including HDMI and USB inputs, and wired and wireless (optional) networking options, the M300WS benefits users requiring maintenance-free design and environmentally conscious features.

- Short throw lens eliminates shadows on the screen along with projected light in the presenter's eyes created by traditional front projection systems
- HDMI input connects you to high-definition sources
- Variable audio-out allows the remote control to adjust the volume of self-powered external speakers connected to the projector
- ECO Mode™ technology helps extend lamp life and lowers power consumption
- Integrated RJ-45 and/or wireless LAN (optional) quickly connects to the LAN for control or image transmission
- Dual computer inputs ensure quick switching between presentations
- Virtually maintenance-free design includes improved 3500 hour filter life (time of lamp change)

NP-M300XS XGA / 3,000 Lm (Lamp NP-15LP)

NP-M300WS WXGA / 3,000 Lm (Lamp NP-16LP)



NEC NP-M311W M Series

WXGA Portable Projector



Audiences stay engaged during presentations with the 3100-lumen NEC M311W, an easy-to-use and budget-friendly portable projector. This projector is ideal for education and small-to-medium-sized business environments that need essential features, including bright images, automatic technologies and eco-friendly appeal. Wireless Imaging Utility enables users to send an image from their iPad directly to the M311W, while Crestron Roomview aids in emergency messaging.

The M311W offers lamp life up to 8000 hours and a high contrast ratio of 3000:1. The advanced networking capabilities, coupled with dual VGA, HDMI and USB inputs, make it a powerful tool for classroom and conference room use, including those in healthcare environments where its DICOM Simulation technology can be utilized. Additionally, the M311W uses the same lamp as its predecessor, allowing this accessory to be compatible for customers planning a facility refresh but want to use their existing lamp's full lifecycle.

- USB Viewer allows you to present without a PC using a USB flash drive
- Variable audio-out allows the remote control to adjust the volume of self-powered external speakers connected to the projector
- ECO Mode™ helps extend lamp life and lowers power consumption
- Integrated active lens cover mutes audio and video while lowering the lamp power to 25% to conserve energy
- Integrated RJ-45 and/or wireless LAN (optional)
- Dual computer inputs ensure quick switching between presentations
- Virtually maintenance-free design includes improved 6000 hour filter life

NP-M311W WXGA / 3,100 Lm (Lamp NP-16LP)

NP-M311X XGA / 3,100 Lm (Lamp NP-15LP)

NP-M271X XGA / 2,700 Lm (Lamp NP-15LPUM)



NEC NP-L50W L Series

WXGA Portable Projector



The 500 lumen NEC L50W is a lightweight mobile projector designed to provide environmentally-conscious, on-the-go users with multimedia functionality. The solid state LED light source provides a mercury-free design, and the intuitive remote control allows for one-touch source changes and complete menu control for projector settings.

The L50W has a filter-free design and offers a 1GB internal memory with SD input to expand storage up to 32GB, which allows easily presenting from a flash drive. The Office Viewer feature enables users to store common Microsoft Office file formats on the L50W, including Microsoft Word, Excel, PowerPoint, as well as Adobe PDF documents. Built-in technologies include closed captioning and wall color correction.

- Solid state LED light source improves total cost of ownership
- Compact size and lightweight design simplify transport
- Filter-free design eliminates the hassle and time spent monitoring and changing filters
- 1GB internal memory and SD input to expand storage up to 32GB
- HDMI input connects you to high-definition sources
- Built-in closed captioning enables decoding and display of text information from a video

REPLACEMENT LAMP LAMPLESS PROJECTOR



NEC NP-UM330W UM Series

WXGA Portable Projector



NEC's widescreen UM330W is a 3300-lumen ultra short throw projector that packs a multitude of features while delivering an extremely short throw distance for education and corporate applications. A complete interactive projector solution can be created using the optional NP02Wi eBeam interactive system. With its ability to be mounted to the wall directly above the screen on which it projects, this model helps eliminate the shadows and glare typically found with standard projection systems.

The UM330W includes a powerful 16W speaker, closed captioning and RJ-45 for remote management over a network, and its input panel includes dual HDMI, VGA and a microphone input to amplify the presenter's voice. The optional NP02Wi interactive eBeam system enables accurate control and annotation at the screen surface.

- Ultra short throw lens (0.36:1 throw ratio) helps eliminate shadows on the screen along with projected light in the presenter's eyes created by traditional front projection systems
- Comprehensive input/output panel, including dual HDMI, VGA and a microphone input
- ECO Mode™ helps extend lamp life & lowers power consumption
- Virtual Remote allows the presenter to control the projector from the computer desktop without using the physical remote control
- Optional eBeam interactive system allows for annotation and collaboration on a whiteboard locally or via web meetings
- Available as a bundle with one widescreen ultra short throw projector and NP04WK1 wall mount kit (NP-UM330W-WK1)

NP-UM330X XGA / 3,300 Lm

REPLACEMENT LAMP NP-17LPUM





Fully Loaded High-Definition Presentation Power



TH1060P

Full HD Large Venue Projector

The Optoma TH1060P, a native 1080p high-definition DLP projector, delivers clear widescreen images ensuring your audience experiences the full impact of messages. Meanwhile, the projector's brightness make it the choice of home theater users. The TH1060P adds a variety of features aimed at easing and streamlining presentations for the user. The included IR remote integrates a USB mouse function and laser pointer to help presenters add emphasis and impact. Two HDMI connectors support ready connection to the widest possible array of input devices, including computers, Blu-ray players and more.

Bright enough for use in large conference rooms and classrooms, the Optoma TH1060P includes a wide range of analog and digital connectivity options for high-resolution sources. With user-friendly interface of the Crestron RoomView® remote management software, monitoring, managing and controlling the Optoma TH1060P remotely via RJ-45 connector is simple.

- Delivers riveting widescreen presentations—HD Native (1920 x 1080) DLP® with BrilliantColor™ Technology
- Bright enough for big rooms—4,500 ANSI lumens and 2,500:1 contrast ratio (full on/full off)
- Designed with presenters in mind—Presentation-friendly IR remote with USB mouse function and laser pointer
- Integrates easily with the network—Crestron RoomView® for projector management and control via RJ-45 connection.
- Built for environmental friendliness—Consumes <1 watt of power in standby mode

RESOLUTION	Full HD (1920 x 1080)
BRIGHTNESS	4,500 ANSI Lumens
CONTRAST RATIO	2,500:1
DISPLAY TECH	DLP
WEIGHT	7.8 lbs
WARRANTY	3-Year Optoma Express Replacement Service
LAMP PART #	BL-FS300C
SPECIAL FEATURES	BrilliantColor™ Technology, Crestron RoomView® Compatible



Optoma W401

WXGA Portable Projector

Portable, Bright & Featured

The W401 is robustly featured and powerfully portable projector designed for maximum versatility and low-cost operation. This 4000 ANSI lumens, and full 3D processing, the W401 delivers bright, rich images wherever presenting.



- Easy to read images, even from the back of the room – high brightness at 4000 ANSI Lumen and a 10,000:1 contrast ratio
- Native WXGA resolution (1280 x 800)
- Light 6.4 lbs weight – perfect for transporting from place to place
- 3D ready and enabled for many popular formats
- Broad range of audio and video options.
- Remote monitoring and control capabilities over a LAN network via integrated RJ-45 connection – compatible with Crestron RoomView™
- Complete security features protect projector settings and lock out unauthorized users
- 3 Year Optoma Express Replacement Service, 1 Year Lamp Warranty

X401 XGA / 4,000 ANSI Lumens
REPLACEMENT LAMP TBD



Optoma TX779P-3D

XGA 3D-Ready Projector

Superior Visual Performance for Demanding Applications

The Optoma TX779P-3D DLP projector, exceptionally bright at 5000 lumens and 3D capable, provides outstanding video and data display in large rooms and in rooms with high ambient light.



Remotely monitor, manage and control the Optoma TX779P-3D over the network via the integrated RJ-45 Crestron RoomView® user-friendly interface. The environmentally-friendly TX779P-3D incorporates energy-saving features including <1 watt standby mode.

- Bright at 5000 ANSI lumens with high contrast ratio of 3000:1 (Full On/Off)
- XGA (1024 x 768) Resolution
- Weighs only 7.8 lbs
- Crestron RoomView® for projector management and control via RJ-45 connection
- Presentation-friendly IR remote with USB mouse function and laser pointer
- Environmentally-friendly design – Consumes <1 Watt in standby mode
- Built-in closed captioning
- 3 Years Optoma Express Replacement Service, 1 Year on Lamp

REPLACEMENT LAMP BL-FS300C



Optoma TW635-3D

WXGA Portable Projector

Put Your Best Presentation Forward

Optoma's TX/TW635-3D projectors bring together the features and functionality users need to create compelling and forceful presentations. These projectors, which are 3D-PC ready, deliver an impressive 3500 ANSI lumens brightness and 10,000:1 contrast ratio.



Broad input/output options, which include HDMI, VGA, USB and more, deliver ultimate flexibility for users, while RJ-45 and RS-232 ports support control and management of the projector from a remote location.

- Brightness: 3,500 ANSI Lumens
- WXGA (1280 x 800) Resolution
- 10,000:1 Contrast Ratio
- Weighs only 4.9 lbs
- Connect readily with a broad range of output sources, including Blu-ray players, PCs, tablets, set top boxes, game consoles, camcorders and more
- Deliver crisp, clear presentations with high brightness and contrast ratio
- Streamline IT administration with network command and control features
- Enjoy and share 3D content from a 3D PC
- 3 Years Optoma Express Replacement Service, 1 Year on Lamp

TX635-3D XGA / 3,500 ANSI Lumens
REPLACEMENT LAMP BL-FP240B





Powerful Large Venue Solutions For Any Installation



TW865-NL



TH7500-NL



TH1060P
TX779P-3D

Optoma's installation projection solutions offer high brightness, state-of-the-art color technology and comprehensive features and networking for customized installation and powerful performance in large venues.



TW775
TX785



DOES NOT SHIP WITH A LENS, WE RECOMMEND:
 BX-DL200 (STANDARD THROW LENS)
 BX-DL080 (SHORT THROW LENS)
 BX-DL300 (LONG THROW LENS)

*Many Different
 Demands, One
 Projection Solution*



Optoma **TX785** Projector Expert XGA Installation Projector

The Optoma TX785 provides power and flexibility to meet the demanding requirements of large-venue installations. 5,000 ANSI lumens and the latest in image and color enhancement technologies ensure outstanding performance. Standard, long and short throw lens options, optimized with ED-glass lens elements, create exemplary picture quality at a wide range of projection distances.

Extensive vertical and horizontal lens shift increases the possible installation options even further. With its wide array of inputs and management options, the TX785 is the ideal solution for large-venue projection needs.

- With 5,000 ANSI lumens of brightness, project bright, clear images that can be viewed easily by audiences seated in large venues such as auditoriums and lecture halls
- Flexible projector placement – Extensive vertical and horizontal lens shift
- Three lens choices with easy-to-change bayonet mounts create a wide range of projector distance and image size options
- Remote monitoring and control capabilities over a LAN network via integrated RJ-45 – connection compatible with Crestron RoomView™
- Complete security features limit changes to projector settings and lock out unauthorized users

RESOLUTION	XGA (1024 x 768)
BRIGHTNESS	5,000 ANSI Lumens
CONTRAST RATIO	2,000:1
DISPLAY TECH	DLP
WEIGHT	18.1 lbs
WARRANTY	3-Year Optoma Express Replacement Service
LAMP PART #	BL-FP330B
SPECIAL FEATURES	Crestron RoomView® Compatible, HDMI Compatible



Optoma **TW775** Projector Expert WXGA Installation Projector

Take
 Installation
 Flexibility to
 the Max



Optoma's powerful TW775 projector combines the latest image processing technologies and features. Native WXGA resolution and bright 4,500 ANSI lumens bring full compatibility with today's widescreen PCs and laptops, so the audience can view images easily even from the back of the room.

The TW775 combines full lens shift with three interchangeable lenses to meet the most demanding requirements of large-venue installations. Each lens option is optimized with PureOptics glass elements for superb picture quality at a wide range of projection distances. The TW775 is the best-in-class performer for large-venue projection needs.

- 4,500 ANSI lumens of brightness
- WXGA (1280 x 800) resolution is an ideal match for widescreen PCs
- Weighs only 18.1 lbs
- Flexible projector placement – Extensive vertical and horizontal lens shift
- Three lens choices with easy-to-change bayonet mounts create a wide range of projection distances and image sizes
- Remote monitoring and control capabilities over a LAN network via integrated RJ-45 connection – compatible with Crestron RoomView™
- Complete security features protect settings and lock out unauthorized users
- 3 Years Optoma Express Replacement Service, 1 Year on Lamp

DOES NOT SHIP WITH A LENS, WE RECOMMEND: BX-DL200 (STANDARD THROW LENS), BX-DL080 (SHORT THROW LENS), BX-DL300 (LONG THROW LENS)

REPLACEMENT LAMP..... BL-FP330B



Optoma **TW865-NL** Projector Expert WXGA Large Venue Projector

Delivering
 a Dramatic
 Projection
 Difference



The Optoma TW865-NL brings robust 24x7 operation to large venues looking for widescreen performance. From auditoriums, conference rooms, boardrooms and control rooms to houses of worship and theaters, the single high-brightness lamp offers ultimate performance for large rooms with ambient light.

A variety of features, such as side-loading lamp design, optional lenses, motorized zoom, focus and lens shift, maximize installation flexibility and minimize maintenance.

The Optoma 24/7 Maintenance Program is available for purchase with this projector for added peace of mind.

- Single lamp, high brightness at 6,000 ANSI lumens
- Widescreen WXGA (1280 x 800) Native Resolution
- 4000:1 Contrast Ratio
- 3D-Ready DLP
- Flexible optional lenses with throw ratios from 1 to 3.07:1
- Streamline administration with control and management via RS-232 or RJ-45 ports
- Also available in white
- 3 Year Optoma Express Replacement Service, 1 Year Lamp Warranty

REPLACEMENT LAMP..... BL-FU400A



Optoma **TH7500-NL** Projector Expert Full HD Installation Projector

Installation
 Flexibility and
 Power



The Optoma TH7500-NL DLP projector is a 6000 lumen, WUXGA (1920 x 1200) high resolution powerhouse designed to deliver the perfect combination of performance, flexibility and durability for our customers.

The TH7500-NL features an advanced sealed light engine that ensures the projector delivers the same exceptionally bright, vibrantly colored content for the life of the product. And because of its dual lamp design, the Optoma TH7500-NL provides the redundancy and reliability necessary for 24/7 operation.

- 6,000 ANSI Lumens
- High-resolution display – Native 1920 x 1200
- Top loading, dual-lamp design for 24/7 operation, high brightness and redundancy
- Flexible placement options – Multiple lens and lens shift options
- Powered lens – Zoom, focus and lens shift
- Ships with two color wheels: Optimize for data or video
- Remote management via RS-232 or RJ-45
- Five optional lenses
- Mechanical shutter - provides image mute
- 3 Year Optoma Express Replacement Service, 1 Year Lamp Warranty

REPLACEMENT..... BL-FP330C



ViewSonic Pro8520HD

Full HD Installation Projector

The ViewSonic Pro8520HD is a high brightness projector ideal for use in any large venue installation—even in rooms with high ambient light. With a 1.5x optical zoom lens and a multitude of connectivity options such as dual HDMI, wired and wireless LAN display, USB display, and PC-less JPG slideshows, the Pro8520HD provides maximum installation flexibility for a variety of uses.



- 5000 ANSI lumens
- Full HD 1080p (1920 x 1080)
- Centralized remote LAN control & monitoring with Crestron for easy management
- Presentation made easy with advanced display options – Wireless & wired LAN display, Plug 'n play USB display, PC-less JPG slideshows
- Advanced multi-segment color wheel design, 1.5x optical zoom lens, auto source detection & integrated 20w speakers
- Automatic vertical keystone correction

REPLACEMENT LAMP..... RLC-076



ViewSonic Pro8600

XGA Installation Projector

The ViewSonic Pro8600 is an advanced high brightness DLP installation projector which includes BrilliantColor technology to produce vibrant and vivid colors. The Pro8600 provides maximum mounting flexibility with a 1.5x optical zoom lens, multitude of connectivity options including HDMI, LAN & USB display, optional Wi-Fi, and centralized remote management with Crestron LAN controller.



- 6000 ANSI lumens
- Advanced multi-segment color wheel design, 1.5x optical zoom lens, auto source detection & integrated 20w speakers
- Centralized remote LAN control & monitoring with Crestron for easy management
- Presentation made easy with advanced display options – Wireless & wired LAN display, Plug 'n play USB display, PC-less JPG slideshows
- Automatic vertical keystone correction
- PC 3D ready & up to 120Hz refresh rate powered by DLP Link Technology

REPLACEMENT LAMP..... RLC-076



Introducing the newest members of the Pro8 Series



ViewSonic



All ViewSonic projectors are covered by their **industry leading 3-1-1 warranty**. ViewSonic offers a 3-year limited parts warranty, a 1-year lamp warranty and 1-year free Express Exchange® service. They also have 24/7 customer and technical support to help you with your ViewSonic wherever you may be.

ViewSonic Pro8200

Full HD Installation Projector

The ViewSonic® Pro8200 delivers a true HD home theater entertainment experience to even the most discriminating home theater enthusiast. The native 16:9 widescreen aspect ratio is ideal for HDTV and movies as well as gaming. Get ready for beautifully clear home entertainment.



- 2,000 ANSI lumens
- Full HD 1080p (1920 x 1080)
- Contrast Ratio: 4,000:1
- Pixelworks high performance PW980 video processor
- BrilliantColor Technology
- Two HDMI 1.3 inputs
- Features full RS-232 control

REPLACEMENT LAMP..... RLC-061



ViewSonic Pro8300

Full HD Installation Projector

The ViewSonic® Pro8300 is a Full HD 1080p DLP projector that delivers high 1920 x 1080 native resolution, making it ideal to present the clearest and highest resolution image. Extensive connectivity options, including dual HDMI and dual VGA inputs, make it easy to connect to any business devices like desktops, laptops, tablets, smart phones, and more. The Pro8300 1080p DLP projector is the perfect projector for corporate environment.



- 3000 ANSI lumens
- Full HD 1080p (1920 x 1080)
- Contrast Ratio: 4000:1
- Dual HDMI & dual VGA inputs
- Pixelworks High Performance 10-bit video processor
- Automatic keystone correction
- Advanced 7-segment color wheel design

REPLACEMENT LAMP..... RLC-061



ViewSonic Pro8400

XGA Installation Projector

The ViewSonic® Pro8400 is an advanced high brightness DLP professional grade installation projector. Present up to 8 projectors at the same time or allow up to 4 presenters to connect to a single projector over wireless or RJ-45 network. The filter-less design and long lamp life provide for easy maintenance and low total cost of ownership.



- 4000 ANSI lumens
- Full HD 1080p (1920 x 1080)
- Contrast Ratio: 3000:1
- Dual HDMI connectivity
- Network control through RJ-45

REPLACEMENT LAMP..... RLC-059



ViewSonic Pro8450w

WXGA Installation Projector

The ViewSonic® Pro8450w is an advanced high brightness DLP installation projector. The Pro8450w provides maximum mounting flexibility with a wide 1.5x optical zoom adjustment and a multitude of connectivity option including Network Display, USB, and WiFi making it the perfect choice for large boardrooms, conference halls and auditoriums.



- Brightness: 4500 ANSI lumens
- Resolution: 1280 x 800 WXGA
- Contrast Ratio: 4300:1
- True 16:10 resolution for widescreen brilliance
- Network control through RJ-45
- PC-Less Slide Show Presentation

REPLACEMENT LAMP..... RLC-059



ViewSonic Pro8500

XGA Installation Projector

The ViewSonic® Pro8500 is an advanced high brightness DLP installation projector. The Pro8500 provides maximum mounting flexibility with a wide 1.5x optical zoom adjustment and a multitude of connectivity options including Network Display, USB, and WiFi.



- Brightness: 5000 ANSI lumens
- Resolution: 1024 x 768 XGA
- Contrast Ratio: 4900:1
- Network control through RJ-45
- PC-Less Slide Show Presentation

REPLACEMENT LAMP..... RLC-059



ViewSonic Pro9000

Full HD Installation Projector

The ViewSonic® Pro9000 is a full HD 1080p laser LED hybrid projector ideal for home theater. It's equipped with DarkChip3 technology to deliver excellent colors. Home theater enthusiasts can count on the Pro9000 to bring stunning, movie-like visual experience to any room.



- Brightness: 1,600 ANSI lumens
- Resolution: Full HD (1920 x 1080)
- Contrast Ratio: 100,000:1
- Dual HDMI inputs
- Mercury-free hybrid light engine design provides optimal efficiency in brightness & energy
- Home theater performance powered by TI DarkChip3 technology

REPLACEMENT LAMP..... TBD



IAVI's ServicePak ENHANCED WARRANTY

Offer IAVI's ServicePak Enhanced Warranty with Flat Panels or Projectors and easily increase your margins up to 60%!

What is the ServicePak?

IAVI's ServicePak Enhanced Warranty program has been custom designed to meet the needs of professional installation companies and resellers. With some of the lowest prices in the industry, selling IAVI's ServicePak helps you win customers and dramatically increase your profits.

How Does it Work?

The ServicePak Enhanced Warranty extends the manufacturer's original warranty on your flat panel or projector to a total of 2, 3, 4, or 5 years. The ServicePak Enhanced Warranty period is inclusive of the original manufacturers' warranty.

What's in it for you?

- Increased profits
- Differentiation for your company
- Better service for your customers
- Reduces on-site service calls
- Covers both displays and projectors

Features of the ServicePak

- Covers all makes and models
- 100% parts and labor of all covered services¹
- BWG network of pre-screened, authorized service centers throughout the U.S.
- On-site coverage available
- No deductibles or hidden charges
- Toll-Free customer service number and 24/7/365 customer support from BWG
- No limit on the number of repairs²
- Contract may be renewable
- Transferable to new owner if product is sold or traded

What's in it for your customer?

- Budget control
- The BWG network of pre-screened, authorized service centers throughout the U.S.
- No deductibles or hidden charges
- Fully Insured Warranty Program
- 24/7 multi-lingual customer service
- Can cover removal and reinstallation (limitations apply)

Offer IAVI's ServicePak Enhanced Warranty with Flat Panels or Projectors and easily increase your margins and protect your customers!

No other enhanced warranty gives end users so much coverage and convenience—and such a great opportunity for you. IAVI's ServicePak Enhanced Warranty provides additional coverage after the manufacturer's warranty has expired.

Anytime service is required for a covered product, a simple toll-free call to one of our customer service representatives allows us to quickly locate a convenient authorized service center that can handle the repair.

¹ Term is from date of purchase and is inclusive of the original manufacturer's warranty. Bankers Warranty Group's liability begins at the end of the manufacturer's warranty.
² Bankers Warranty Group may elect to cash settle rather than replacing or repairing the defective unit.



Service Agreements Administered by
 Bankers Warranty Group and BWG Protection Plans Inc.
 In Florida, Service Agreements Administered by
 Bankers Warranty Group of Florida, Inc.
 11101 Roosevelt Blvd. N., St. Petersburg, FL 33716

Why should you enter the Digital Signage Installation market?

The benefits of digital signage are undeniable.

Tremendous Growth Opportunity for You

Additional Revenue

Digital Signage solutions offer systems integrators and AV installers an added revenue channel for their pre-existing businesses.

Expanding Market

Advancements in technology have made digital signage solutions easier to use, more reliable, and more affordable than ever before. These combined factors have contributed to its widespread adoption in multiple applications.

Increased Margin

A complete digital signage solution consists of a combination of products that yield high margin. Key components include digital signage software, media players, and displays. Even with the simplest project, higher margin accessories such as mounts and cables are necessary.

Extremely Beneficial for Your Customers

Cost Effective

Eliminating the need to print and distribute static signs each time the message or campaign changes saves on costly printing and distribution fees. Additionally, end users can earn money with their digital signage network by selling advertising space to their suppliers.

Dynamic Tailored Message

Digital signage is instant and offers the ability to change dynamic content immediately for various promotions or particular customers. You'll see sales increase and customer satisfaction rise.

Simple Management

A network managed digital signage system makes it effortless to add, remove and edit content. Content the end user probably already has!

Commercial Digital Signage Markets

Digital signage is versatile and can be used in virtually any commercial venue. In recognizing the full potential of digital signage, it has become a crucial aspect of communication for the retail and hospitality markets. Digital screens are now seen in nearly every shop window, airport, hotel, and cruise ship, successfully catching the attention of passersby.



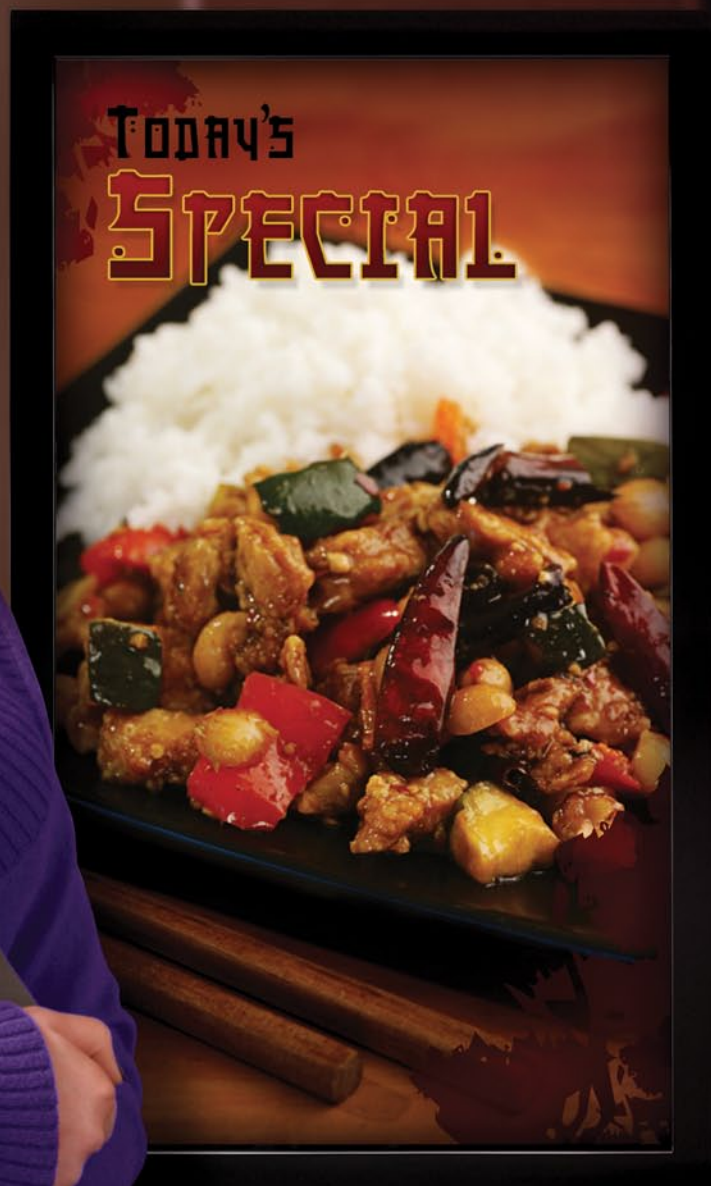
BARS & NIGHTCLUBS can use digital signage systems to display drink specials, create revenue streams through advertisements, easily communicate upcoming events, and provide entertainment with sports games, trivia, or music videos.



STADIUMS & ARENAS can use digital signage networks to enhance communications with visitors about upcoming attractions, provide facility maps, increase concession sales, improve event visibility, and encourage team or performer support.



HOTELS & RESORTS can improve communications with guests, display local attractions and entertainment, and communicate meeting room scheduling with digital signage systems.



HOUSES OF WORSHIP can use digital signage solutions to communicate messages more effectively to congregations and broadcast sermons, event schedules, inspirational messages and song lyrics while increasing message recall.



MALLS AND RETAIL can boost sales, improve communications with customers, reduce perceived wait times standing in line, display new in-store promotions, and better educate customers on product benefits and value.



CASINOS can use digital signage systems to promote games, communicate show times, advertise restaurants and drink specials, announce big winners and free staff to better serve visitors' needs.



EDUCATION facilities can use digital signage systems to improve campus communication, develop emergency alert systems, display campus maps, and increase student and staff awareness of campus news, information and policies.



TRANSPORTATION can use digital signage to improve communications with visitors while reducing perceived wait times, provide local and facility maps, and engage and inform customers with news, weather, and emergency broadcasts.



RESTAURANTS can use digital signage networks to display menu items and daily specials, provide entertainment, improve communications with patrons and realize new revenue streams through advertising.



Time to get started with some seriously simple Digital Signage.

It's as easy as one, two, three... four!

It's easy to create, upload, distribute, and manage the messages to meet the digital signage needs for any application. The components of a typical digital signage installation include dynamic media, content management software, one or more media players, and one or more display screens.

Step 1: Media

Start with the message you want to deliver. With digital signage your content can be anything, including text, images, animations, video, audio, and interactivity. You can use pre-existing media or use a software solution to create an effective message. You will have dynamic, engaging messages in no time.

Step 2: Software

Content Management Software provides a range of different ways to schedule and playback content from one location. Simply download the software to your PC to organize and direct how and when your content will play. PC based systems allow for greater flexibility and lower installation cost.

Step 3: Player

Now that you have your content created and scheduled, let's work on getting it distributed to your audience. Content is played to the displays of a digital signage network via a Media Player. Just upload your completed content to the media player for distribution.

Step 4: Display

The most difficult part here is determining the type, location, and orientation of your display, touch panel, or video wall. Once your display is installed just distribute the content you created through your media player, and Voila! Your personalized, interactive, and timely message is being seen by your intended audience. It's that simple!



Why buy Digital Signage from IAVI?

IAVI will give you competitive pricing on the latest technology with advice from a Digital Signage Expert!

Certified Staff Available

IAVI understands the steps needed to get started in Digital Signage, from recognizing the appropriate application for specific market segments to determining which products and software work best for your application.

There are many components and decisions that go into developing a digital signage system. IAVI understands these questions and our certified digital signage expert is available to make navigating through them much easier.

Innovative Product Offering

IAVI offers the most affordable and cost effective solutions tailored to your specific business needs. We supply the solutions that allow you to control content on a single display or a full arena of displays with the newest, most innovative digital signage products and software from world leading manufacturers.

Reliable Resource

IAVI offers ServicePak Extended Warranties for flat panels, providing additional coverage for up to five years after the manufacturer's warranty has expired. This program has been custom designed to meet the unique needs of professional installation companies and resellers.

Competitive Approach

Through strong partnerships with quality manufacturers IAVI is able to offer many cost saving promotions and programs. IAVI recognizes that lower pricing helps our customers stay competitive, and we're committed to helping you win the business. Our industry expertise and skills will help you maximize profits and expand business.

Call today to speak with IAVI's certified digital signage expert! You will discover how simple and effective it is to set up a digital signage network and watch as your margin grows!





Beauty and Elegance
with Maximum Impact.

LED Display Solutions

- Unparalleled brightness and contrast
- Super rugged design
- Unique color calibration technology
- Ultimate image quality and uniformity
- Simplest setup
- Front and rear service



IB-4

www.delta-americas.com/displaysolutions





WX Series Displays

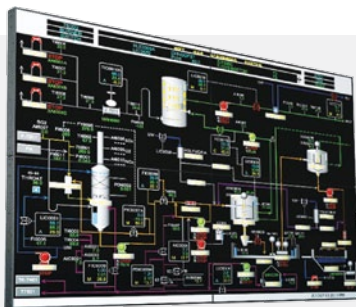
The WX21 is Delta's revolutionary "WideXtreme" megapixel display that provides seamless, high resolution images for a variety of visualization applications.

The WX21 display offers a complete solution that can be assembled in under an hour and calibrated in seconds. The compact and lightweight display takes up very little space, so it is ideal for conference rooms, class rooms, offices, tradeshow booths and any space-constrained environment where large, high resolution, seamless displays are desired.

In addition, the space-saving WX21 display offers a simple and affordable collaboration solution that allows simultaneous display access for multiple users with laptops, tablets or smartphones over an existing WiFi or Ethernet network. Delta's WX21 display is the perfect display solution for your collaborative meetings and conferences.



WX21 Display pictured.



SUPER NARROW BEZEL LCD VIDEO WALLS

Delta's professional-grade, high brightness LCD displays feature direct LED backlighting, full HD resolution, an incredibly narrow 5.3mm combined bezel, and support up to a 15 x 10 display array for outstanding visual performance. As a tiled LCD solution, the narrow bezel LCD displays offer 24/7 industrial strength and minimal maintenance for a variety of applications such as retail stores, healthcare facilities, control rooms, airports, broadcast, corporate lobbies and telecom.

- Super Narrow Bezel LCD
- Unified Control Module
- Auto Color Calibration
- Web Browser Control
- IR Receiver Module
- Multiple Input/Outputs Management (HDMI/3G-SDI)
- Innovative Design for safe & efficient operation



MINIICON

A High-Performance, Embedded Video Wall Control System for a Broad Range of Applications



MINIICON is Delta's high-performance, embedded video wall control system. It builds on the successful platform developed for the DVCS (Distributive Vision Control System) and delivers superior performance, high video quality and reliability for control centers, network operations centers, intelligent traffic systems, public safety operations, military surveillance systems and any other application requiring 24/7 operation.

The lightweight and compact MINIICON supports up to 12 output screens and a variety of high-resolution input signals including RGB/DVI, HD/3G-SDI, analog videos and IP streams at a solid 60 frames per second without dropped frames.

With a fully embedded design and redundant power supplies, the MINIICON offers low power consumption, unmatched levels of performance, stability and flexibility, providing total peace of mind and security to all users. It is designed for continuous, 24/7 operation and is ideal for any small to mid-sized control room environment.

Its intuitive, easy-to-use web-based interface allows you to manage and control your video walls, all in real time. Display alternatives are completely flexible without any performance degradation. Sources can be displayed at any size, any position on any display.

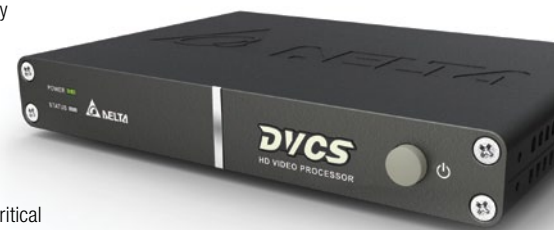
With a high price-performance ratio, MINIICON is the perfect choice for a whole host of control room applications.



DISTRIBUTIVE VISION CONTROL SYSTEM

Providing All the Power and Flexibility You Need to Manage and Control Your Video Walls

DVCS is Delta's revolutionary IP-based distributive video wall control system. The powerful, highly expandable DVCS offers the most reliable and cost-effective solution for controlling video walls in any mission-critical environment where every detail matters.



Designed with a distributed structure, the highly scalable DVCS can distribute, display and control literally thousands of digital and analog video sources on any array of displays using standard, off-the-shelf CAT5 cabling. From large-scale configurations to small-scale systems, the solution can meet any requirement, with support for over 10,000 sources and display units.

With a fully embedded design and the lack of a single point of failure, the DVCS is completely fault-tolerant, providing great peace of mind and security to all users. It is designed for continuous, 24/7 operation and is ideal for applications such as network operations centers, transportation, control rooms, power and utilities, emergency centers and surveillance.

At the heart of the DVCS solution is the DVCS Manager, a highly intuitive, easy-to-use web-based interface that allows you to effectively manage and control your video walls, all in real time. Sources can be displayed at any size, any position on any display.

You can enjoy even greater flexibility with the DVCS Manager mobile app to stay connected and productive on the go. With support for third party API integration, the DVCS also works over existing network to meet every application need.



scan.me/34fnsk

BrightSign™

Everything you need for sophisticated Digital Signage

BrightSign, LLC is a privately held company located in Los Gatos, California founded in 2002 by Anthony Wood, the inventor of the digital video recorder (DVR). BrightSign is the market leader in solid-state, Full HD, digital sign and kiosk controllers. BrightSign players are known for their signature reliability, affordability and ease-of-use by the commercial digital signage market worldwide.

BrightSign is a leading worldwide provider of digital sign controllers, software & networking solutions for the commercial digital signage industry. BrightSign solid-state digital signage media players set new standards for both stand-alone and networked digital signage applications with their superior video quality, reliability, affordability, ease-of-use and interactivity.

Learn more about BrightSign at brightsign.biz

More Than A
Digital Signage
Player

▶ Play



scan.me/7krjzm

BrightSign XD Product Line

Exceptional Performance, Engaging Sophistication

Introducing the industry's first line of solid-state digital sign players with PC-class performance. State-of-the-art technology includes an advanced video engine with superior scaling technology that delivers pristine 1080p video and is capable of decoding two 1080p videos simultaneously, as well as support for 3D content.

BrightSign XD brings Live HDTV to your signage using an ATSC/Clear QAM tuner or HDMI input. The ATSC tuner is used to play cable TV or closed circuit TV broadcasts, and the HDMI input to play any broadcast content – even HDCP protected content. All models support HTML5 so content creators can use familiar development tools to create engaging content. BrightSign's touch-screen interactivity is enhanced with touch/swipe control.



XD1230 Networked Interactive and Live HDTV

Includes all the features BrightSign offers plus Live HDTV playback, so you can play content from any broadcast channel (even HDCP protected content) via the HDMI input and content from cable TV or closed circuit TV broadcasts via the ATSC/Clear QAM tuner.



XD230 Networked Player

Powerful video engine capable of dual Full HD 1080p video decoding and simultaneous content playback from local, networked and streaming sources. Abundant content support including HTML5 and 3D content. And UDP network control for messaging between BrightSign and third-party devices.



XD1030 Networked Interactive

All the features of the XD230 plus S/PDIF output for pure digital and surround sound audio and a diverse range of interactive controls such as GPIO, serial, USB, UDP and mobile devices, for engaging interactive displays.



POWERFUL VIDEO ENGINE

- Uncompromised decoding, capable of playing two 1080p videos simultaneously
- Superior scaling technology delivers pristine 1080p video for any screen/zone size
- Simultaneous playback of content from local, streaming & live sources
- Accelerated JPEG decompression for instant image display and professional quality, high-speed transitions
- Captivating 3D playback and commanding BrightControl to operate screen functions via HDMI

INFINITE DISPLAY POSSIBILITIES

- Abundant content support – Full HD videos, images, audio, HTML5, Live TV, streaming content, 3D content and Live Text
- HTML5 support to create engaging content using well known development tools
- Exceptional video walls including non-standard display shapes and mixed screen orientation
- Zones feature to multiply your content playback on a single screen
- Video and audio playlists run independently from a single player
- S/PDIF output for pure digital and surround sound audio

EXCEPTIONALLY DYNAMIC CAPABILITIES

- Interactive controls including touch/swipe, GPIO, USB, serial, UDP, mobile devices and more
- HDMI in to play Live HDTV broadcasts – even protected HDCP content
- ATSC/Clear QAM tuner to play any cable TV or closed circuit TV broadcast content
- Live Text integration to update content dynamically without republishing
- Media Streaming of video, audio, and even real-time RSS social media feeds such as Twitter and Flickr

RELIABLE AND EASY TO USE

- Highly reliable solid-state platform and a slim OS means no PC down-time
- Locking power connector to avoid unintentional power-downs
- Effortless presentation creation using the included BrightAuthor software
- Internal MicroSD card slot for secure content storage and playback
- Built-in networking to manage, update and monitor your signage remotely
- Low power consumption means low heat emissions and low operating costs

BrightSign HD Product Line

Exceptional Performance, Engaging Sophistication

BrightSign HD products bring exceptional performance and solid-state reliability to your digital signage installations. Updated HD models have an improved media handling platform, a smaller physical form factor, and are lower cost than ever before. Customers enjoy superior ease of use and integration for simple plug and play content or robust interactive capabilities.

BrightAuthor software is included free of charge for easy creation of signage and kiosk presentations. Simply select the BrightSign model of your choice for a reliable signage solution that is highly affordable and simple to deploy. With three models to choose from, the BrightSign HD solution supports a wide variety of applications from stand-alone kiosk displays to networked solutions with engaging interactivity.



HD120



Basic Interactive Model: Bring your stand-alone display to life with our most affordable, Full HD solution that offers solid-state reliability, multi-zone screen layouts, simple GPIO interactivity and our signature ease-of-use and integration.

HD220



Networked Looping Model: Enjoy easy, networked content updates and live data feeds along with flawless video playback, and Ethernet synchronization.

HD1020



Networked Interactive Model: Engage your audience with a wide range of interactive options using GPIO, USB, serial and UDP connections and networked content for a truly impressive display.

InFocus BIGTOUCH

The all-in-one touch PC that demands an audience.

Windows 8 combines the fun of a tablet with the productivity of a PC, and the InFocus BigTouch amplifies that beautiful, fast and fluid touch experience for your shared work space.

- Windows 8 Pro experience on a 55" 1080p touch display
- Run all your Windows apps, even the older ones, in touch mode
- Highly customizable for your needs and your PC applications
- Intel Core i5 processor with fast solid state hard drive
- Wireless mouse and keyboard included
- Part number: INF55WIN8-KIT



Watch the
BigTouch in
action in this
video overview!



The Tablet Experience Magnified

Tablets are fun. Touch is intuitive. The BigTouch employs a beautiful 55" display that allows that enjoyable experience, and content, to be seen and shared.

- Brilliant 55" full HD (1920 x 1080) display shows off content with brightness, color and clarity
- Five-point touch screen delivers exceptionally accurate touches, swipes and gestures
- Windows 8 gestures such as tap, slide, swipe, pinch, and rotate can be used to get a global view of everything on the screen and slide back and forth to find what you're looking for

Maximize Windows 8 Touch Capabilities

Windows 8 was built for touch and online connectivity and the 55" BigTouch maximizes that experience on a large scale.

- Personalize the Start screen with tiles that connect to an app, website, folder or whatever else is important to you
- Familiar Windows desktop you've used before
- Use your apps and arrange them the way you want
- Multi-task by snapping two apps side-by-side
- Enhanced features to easily connect to your networks, access files in the cloud, encrypt data, and more

BigTouch in Education

Higher education and primary and secondary schools (K-12) can benefit from BigTouch in administrative offices or in the classroom.

Its bright, engaging display keeps students' attention and Windows 8 is intuitive and familiar for students, staff and IT.

- In classrooms for giving and preparing lessons
- Access and display content from the web and the cloud
- In administrative offices as a shared PC
- Flexible and secure for IT to manage

Is Mondopad What You Need?

Mondopad is revolutionizing how people communicate and work together. Think of Mondopad as a fully integrated BigTouch that includes the Microsoft Office Suite and exclusive Mondopad apps that take collaboration to a whole new level.

- A camera with microphones and a speaker bar designed for video conferencing are included with Mondopad
- Mondopad's easy-to-use, business class video conferencing brings people together instantly
- Use Mondopad for interactive whiteboard sessions and share documents and take notes on them with people in the room or around the world

Get a load of this
video review on the
Mondopad.



Upgrade BigTouch to Mondopad Functionality

Mondopad & BigTouch are complementary products that address different requirements and specific applications. Plus, BigTouch is easy to upgrade to bring it to full Mondopad capability.

Why BigTouch?

- For those who want to showcase Windows 8 in a large touch screen
- Class and conference rooms, lobbies, kiosks, home offices & more
- Runs all Windows apps including Windows 8 apps & legacy apps
- Easy to upgrade to Mondopad with software and hardware bundle

Why Mondopad?

- For businesses that require an integrated collaboration platform that enables video conferencing, digital whiteboard, viewing and sharing MS Office files, annotation, and more
- Also great for running any Windows app on a large touch format



EZSIGN

TV Signage Solution



What is EzSign TV?

LG EzSign TV is a television that can also be used as digital signage. Create and run messages on the screen in the form of a billboard while showing Live TV programming. Advertisements, information and broadcast content can be arranged on the same screen to attract attention and deliver specific messages to customers.

Is EzSign TV more cost effective compared to other Digital Signage products or solutions?

Yes, because there is no need to purchase the expensive software for creating content or the expensive media player to run the content. There is no need to hire an expert to setup the content delivery system. A computer is used to create the content and a USB flash memory stick to store, transfer, and deliver specific messages to customers.

Is it really that easy?

Create your own signage content using the free EzSign TV software and a computer. There are many free templates available. Choose the template and add tailored messages to that template. Save the file and transfer it to the EzSign TV using a USB flash memory stick to run it. It is that easy.

What is the main difference between the EzSign TV and consumer TVs?

The EzSign TV has special functions like USB Cloning, Public Display Mode, and Digital Signage Capability which cannot be found in consumer TVs. In addition, it comes with a 2-year limited warranty while typical consumer TVs come with 1-year limited warranty.



EzSign TV Series

Commercial Widescreen TV Signage Solution

The product of the year winner from CRN and the Best Award winner from the Commercial Integrator magazine for digital signage hardware, the LG EzSign TV is an innovation in digital signage that can entertain while maximizing the impact of messages. Create signage content by using your PC and the free EzSign software. Transfer that content by using a USB flash drive and plug it in to the EzSign TV to run content in the form of a billboard - no additional hardware is needed. Advertisement, information, and a live television broadcast can be arranged on the same screen to attract attention and deliver specific messaging to customers.

COST EFFECTIVE No need to buy a media player - Create signage content by using a PC and the free EzSign TV software. Transfer that content by using a USB flash drive and plug it in to the EzSign TV to run it.

CUSTOMIZED Signage content can be customized for any business - The LG EzSign TV allows creation of signage content and revisions on the fly.

FAST AND EASY Edit content quickly and easily - Select one of the pre-made templates. Add images and text to it. It's that simple.

VARIETY Choose from a broad range of template designs and change according to needs.

SPECS FOR THE 55" 55LN549E

RESOLUTION	Full HD 1080p (1920 x 1080)
DISPLAY SIZE	55" (54.6" measured diagonally)
BRIGHTNESS	300 cd/m ²
CONTRAST RATIO	1,000,000:1 Dynamic
DISPLAY TECH	LED
WEIGHT	46.7 lbs (with Stand)
WARRANTY	2-Year Limited Warranty
SPECIAL FEATURES	Pro:Centric™ ST, Real Cinema™, USB Cloning, XD ENGINE™, Invisible Speaker System, Built-In ATSC/NTSC/QAM Clear Filter, Public Display Settings, Digital Signage Function with Free Software, Optional LG USB dongle (AN-WF100)



*Cost Effective. Simple.
Highly Effective.*



LG EzSign TV (LED type)

55LN549E - 55" class (54.6" measured diagonally)

47LN549E - 47" class (46.9" measured diagonally)

42LN549E - 42" class (41.9" measured diagonally)

39LN549E - 39" class (38.5" measured diagonally)

32LN549E - 32" class (31.5" measured diagonally)



WV30 Video Wall Series

Direct LED Super Narrow Bezel Display

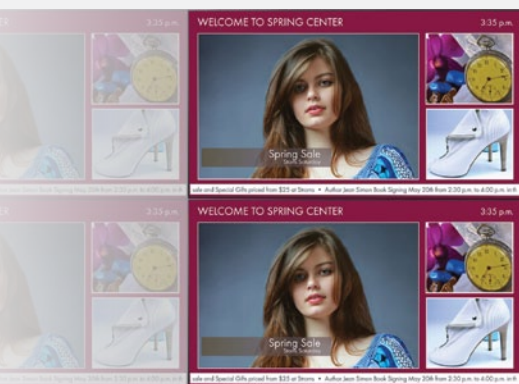
The WV30 series are Energy Star® 5.0 compliant consuming approximately 40% less energy than noncompliant models. In standby mode, they use less than one watt of power and meet the environmental regulations such as EPA and ERP, while excluding the use of harmful materials (RoHS) and reducing CO2 emissions.

Super IPS accurately display an image's quality and color at an 178° ultra wide viewing angle. There is no fall-off in color accuracy and no diversion in contrast ratio at wide angles. From bright sunlight to the most challenging lighting environments these displays are designed to reproduce and maintain the ultimate color temperature for lifelike images.

The WV30 series with ultra slim bezel widths of 3.9mm (left/top), 2.4mm (right/bottom) will draw attention to screen images and not the display for impactful messaging. With the ability for a 15x15 matrix the image will almost seamlessly broadcast larger than life images.

SPECIFICATIONS

- Native Display Resolution 1366 X 768 (HD)
- Shine-Out Film Gives More Visibility (47WV30MS-B only)
- Contrast Ratio 1,300:1 (Typ.), 500,000:1 (DCR)
- 178° Viewing Angle
- Viewing Angle and Life Expectancy Portrait and Landscape Mode
- RJ-45 LAN Control
- HDMI™/DVI With HDCP
- RS-232C Control
- Convenient External Speaker-Out
- Split Zoom (Self Video Wall) Up to 15 x 15 matrix - Adjusts for bezel width
- USB Playback
- USB Port
- Temperature Sensor
- 3-Year Limited Warranty Parts/Labor/Backlight



ELMO TT-12

Interactive Document Camera

Enhanced zoom capability, multi-directional camera positions, video recording function without a computer and direct interaction with the ELMO CRA-1 wireless tablet adds more flexibility and latitude to teaching and learning. TT-12 is a fifth generation model in the exceptionally popular "Teacher's Tool" line of classroom document cameras.

Partner the TT-12 with the ELMO CRA-1 Tablet for dynamic smooth, flowing lessons. Teachers can annotate on live images captured by the TT-12 while the image is displayed on a large screen. This empowers teachers with the tools to deliver detailed instructions and achieve greater student engagement.

Because the ELMO Tablet is wireless and can remotely control the TT-12, teachers can move freely around the classroom (within 50 feet of the TT-12), making it possible to interact with the entire class and individual students.

- Weight: 7.1 lbs
- Dimensions: 14" x 14 11/16" 16 3/16"
- Zoom: 8x digital
- Camera: 1/2.8" CMOS sensor
- SD card slot



ELMO P10

Document Camera

Precise, productive and practical, the ELMO P10 document camera turns classroom presentations into a springboard for discovery, where just-like-real images - vividly captured down to the finest detail - surprise, stimulate and inspire.

When the P10's high-magnification 16x optical zoom is combined with its 8x digital zoom, images can be enlarged up to 128 times for the clear, distortion-free display of even the tiniest details. With its high-resolution images, powerful zoom function and ultra-smooth motion display, the P10 helps students explore a world of fine details and delicate movements.

To capture images in stunningly vivid detail, the P10 employs a precise 1.49 megapixel CMOS image sensor. The human eye recognizes 25 fps (frames per second) or above as "normal video". The P10 reproduces moving images at 30 fps for the display of truly smooth, natural-looking motion.

- Weight: 1.2 lbs
- Dimensions: 14 13/16" x 19" x 24 1/8"
- Zoom: Powered, 16x optical
- Camera: 1/3" CMOS sensor
- SD card slot



ELMO P30HD

Visual Presenter

Even in an increasingly virtual world, reality is often the best teacher. Actual specimens, real three-dimensional objects, authentic documents, and pages directly from a book all make visual presentations more diverse, realistic, and vivid. Make the most of your real-world materials with an ELMO P30HD Visual Presenter. Deliver real-time, true-to-life presentations that catch and keep the attention of everyone in the room. Integrate your resources into data files for easy transfer to a PC or SD card for storage. And let the learning begin.

The P30HD's megapixel image sensor captures everything from fine text to three-dimensional objects in Full HD 1080p. Projecting to a large high-quality digital TV or a plasma over 100" can demonstrate the true value of the P30HD. You will instantly recognize the P30HD's unprecedented clarity.

- Weight: 10.1 lbs
- Dimensions: 14 5/8" x 19" x 21 5/8"
- Zoom: 8x digital
- Camera: 1/2.8" CMOS
- SD card slot



ELMO P100N

Visual Presenter

Not only for teaching and presentations, the ELMO Visual Presenter P100N goes further by featuring advanced technologies and concepts to enhance a wide range of communications. It's the perfect presentation tool, allowing users to easily break through the constraints and obstacles that previously seemed to hamper communication. It's easier to understand, easier to use, and best of all, it gives more power to communicate. Everything about it was developed with the goal of transforming communication for the better. It is certain to evoke an unprecedented, gratifying response from the audience, giving a well-deserved send of satisfaction.

The P100N expands presentation versatility through its ability to connect to the PC, allowing audiences to view live images on browser software. The FTP client feature enables storing the still image on the FTP server, raising the infinite possibilities and versatility of the document camera.

- Weight: 18.7 lbs
- Dimensions: 18" x 20 1/2" x 23 1/8"
- Zoom: 16x optical, 4x digital
- Camera: 1/3" CMOS
- SD card slot
- Integrated LCD Monitor
- HDTV Compatible



ELMO MO-1

Visual Presenter

Visual presenter MO-1 is a completely new concept mobile document camera designed for instructions and presentations anywhere in or out of the classroom or office. Smaller than a business envelope, the MO-1 is one of the highest quality imaging mobile presenters on the market.

Ideal for teachers teaching in several locations and business travellers. It allows users to choose a color (white, pastel pink, matte black) that best suit their various teaching or business needs.

Featuring an ultra compact, simple and stylish design, the MO-1 can easily fit inside a jacket pocket or small handbag, making it lightweight and easy to carry in virtually any situation. Weighing in at only 1.3 lbs, the MO-1 may be compact in size, but its true color reproduction of five megapixels creates a powerful and vivid presentation.

- Weight: 1.3 lbs
- Dimensions: 3.97" x 8.89" x 13.3"
- Zoom: 8x digital
- Camera: 1/3.2" 5 megapixel CMOS sensor
- SD card slot
- Also available in a bundle (featured to the right)



ELMO Vision Tablet Bundle

Truly interactive, portable presentation bundle system for teachers who want more flexibility while teaching.

The Classroom VISION is bundle system of the MO-1 visual presenter and CRA-1 wireless tablet for a great deal. Visual presenter MO-1 is a completely new concept mobile document camera designed for instructions and presentations anywhere in or out of the classroom or office. Smaller than a business envelope, the MO-1 is one of the highest quality imaging mobile presenters on the market. The CRA-1 allows you to easily make annotations on live images. Make presentations more engaging and effective.

Because the ELMO Tablet is wireless and can remotely control the MO-1, teachers can move freely around the classroom (within 50 feet of the MO-1), making it possible to interact with the entire class and individual students.



NEC Display Solutions is an industry leader in digital signage and provides expertise in creating customized display solutions.

NEC

Whether the application requires award-winning large screen displays or professional installation projectors, we can fulfill any digital signage need. NEC specializes in airport, corporate, education, financial, healthcare, hospitality, house of worship, information display, SMB, retail, restaurant and theater markets. We offer a variety of services to supplement customers' hardware purchases, including content creation and management, content management software (CMS) at no charge and advertising delivery.

Our Digital Signage Solutions provide everything needed for a complete deployment from PCs to content creation.

To get started on your content creation or display solutions project today, contact IAVI.



IAVI is a trusted distributor and partner of NEC Display Solutions

NEC E Series

Large Screen LCD Displays



Quality design and performance is expected of digital signage displays in order to attract, engage and inform audiences. With a slim, sleek bezel and a high contrast panel, NEC E Series displays are points of attraction poised to deliver brilliant content. LED backlighting enables a thinner, sleeker display – all the better to showcase corporate messaging and enable cross-company collaboration. LED backlighting also leads to reduced total cost of ownership and, with a mercury-free design, it has a reduced environmental impact as well.

- Integrated RS-232C allows for external control of the display
- High-definition and high contrast ratio displays provide stunning images
- Built-in tuner allows for high-definition broadcast capabilities
- Additional energy options include a Power Savings Mode to further reduce energy consumption
- LED backlighting enables eco-friendly digital signage
- Reduced bezel width creates seamless digital signage
- Multiple HDMI ports enhance best-in-class connectivity
- Internal, 10W down-firing stereo speakers

E323	32" / WXGA (1366 x 768)
E424	42" / Full HD (1920 x 1080)
E464	46" / Full HD (1920 x 1080)
E554	55" / Full HD (1920 x 1080)
E654	65" / Full HD (1920 x 1080)



NEC X463UN & X551UN

Ultra-Narrow Pro Large Screen LCD Displays



Transform video walls with the immaculate high definition of the 46" NEC X463UN and 55" X551UN. Direct LED backlighting attributes to reduced power consumption and improved edge-to-edge brightness uniformity, while a mere 5.5mm (X551UN) separates active screen areas between neighboring displays to ensure a smooth transition from screen-to-screen in video wall matrices.

This display is ideal for digital signage, boardrooms, entrance lobbies and broadcast applications, and can be deployed in video wall applications up to 10 x 10 in size utilizing integrated TileMatrix™ technology.

- LED direct backlighting source allows even distribution of light across the panel, resulting in improved uniformity from bezel-to-bezel
- Professional-grade LCD panel & components meet even the most formidable digital signage industry requirements, allowing for 24/7 run times
- 1920 x 1080 full HD resolution allows for crisper, more lifelike imaging
- Ground-breaking ultra-narrow bezel as low as 5.5mm (screen-to-screen) creates a nearly seamless video wall
- TileMatrix technology enables video walls (up to 100 displays in a 10x10 matrix)
- Digital loop through includes DVI-D (with HDCP) and DisplayPort

X463UN	46" / Full HD (1920 x 1080)
X551UN	55" / Full HD (1920 x 1080)



NEC V Series

High Performance Commercial LCD Displays



Maximize messaging without having to maximize the budget. The NEC V Series, featuring the 42" V423, 46" V463, 55" V552, 65" V652, and 80" V801, provides a cost-conscious solution for your digital signage applications. Their high-performance panel and abundance of advanced technologies promote extended use, while an adaptable mechanical design make these displays ideal for a wide variety of environments. With the V Series, create dynamic digital signage solutions in virtually any space. Pluggable Specification (OPS), the first industry-wide standardization in option slots, simplifies installation, use and maintenance of digital signage.

- LED backlighting technology reduces power consumption
- Built-in expansion slot supports the Open Pluggable Specification, which is the industry's first standardization option slot that simplifies signage
- Full 1080p high-definition resolution provides stunning detail
- Commercial-grade LCD panel and components
- Expanded connectivity with digital loop-through
- TileMatrix™ allows creation of video walls up to 10 x 10

V323	32" / WXGA (1366 x 768) [CCFL Backlit]
V423	42" / Full HD (1920 x 1080)
V463	46" / Full HD (1920 x 1080)
V552	55" / Full HD (1920 x 1080)
V652	65" / Full HD (1920 x 1080)
V801	80" / Full HD (1920 x 1080)



NEC P Series

Professional Large Screen LCD Displays



Expand messaging options with superior screen performance. The NEC P Series, featuring the 40" P402, 46" P462, 55" P552 and 70" P702, provides a first-class solution for digital signage applications. Its high contrast, industrial-strength design and Enhanced Digital Signage Technology Suite (DSTS), which boasts more than 30 advanced features, make these displays ideal for 24/7 operation in even the harshest environments. The built-in expansion slot future-proofs the display investment, allowing for seamless integration of NE and third-party components. Plus, the capability to easily integrate touchscreen technology or protective glass opens these models up to even more applications, including wayfinding and high-traffic areas.

- Integrated 10W Speakers
- OPS & Current Slot Support
- Digital Signage Technology Suite
- Integrated Thermal Protection
- Sealed Panel Design
- Enhanced Video Wall Capabilities
- Built-In Expansion Slot
- Extensive Control, Diagnostics & Communication
- Real-Time Clock/Round-The-Clock Scheduling
- Cablecomp+™ Technology
- Built-In Tuner (-AVT Models)

P402	40" / Full HD (1920 x 1080)
P462	46" / Full HD (1920 x 1080)
P552	55" / Full HD (1920 x 1080)
P702	70" / Full HD (1920 x 1080)



NEC X Series Super Slim

LED Super Slim Pro Large Screen Display



A new class of public displays. The 40" NEC X401S, 46" X462S and the 55" X552S are built to the highest standards and loaded with state-of-the-art innovation. LED edge lighting enables a mere 1.8" unit depth, creating installation opportunities in even the tightest of spaces. Equipped with a professional grade panel, these models deliver immaculate full HD image quality while operating 24/7. These models support Intel's Open Pluggable Specification (OPS), the first industry-wide standardization in option slots, simplifying installation, use and maintenance of digital signage.

- LED backlighting technology improves power consumption
- 700cd/m² max brightness combined with full HD resolution
- Industrial-strength, premium-grade panel with additional thermal protection, internal temperature sensors with self-diagnostics and fan-based technology, allows for 24/7 operation
- Built-in expansion slot supports the Open Pluggable Specification, which is the industry's standardization option slot that simplifies digital signage
- TileMatrix™ allows creation of video walls up to 10x10
- Real-time clock has the ability to set schedules for on/off times 24/7 and can be set to warm up 30 min before use for optimum color representation

X401S	40" / Full HD (1920 x 1080)
X462S	46" / Full HD (1920 x 1080)
X552S	55" / Full HD (1920 x 1080)





Large enough to display a life size image of a person



Panasonic Professional Plasma Line

42", 50", 60", 65", & 85" Displays

Panasonic's Professional line of Plasma displays features the stunning 85" high definition TH-85PF12U that delivers elegance and superb image quality for any installation - whether it's in a boardroom, classroom, hotel, restaurant, or digital signage environment - while providing full integration in an automated environment.

This new 12-Series HD plasma display - the TH-85PF12U is the first of Panasonic's professional displays to incorporate their NeoPDP™ technology, enabling the display to be larger, thinner, lighter, and more energy efficient. Approximately the size of four 42" displays, the TH-85PF12U is only 3.9" (99mm) thick and weighs approximately 260.2 lbs (118 kg). Power requirement for this unit is 120V AC.

Panasonic professional plasmas are known for their world class image quality and the TH-85PF12U will be no exception. The unit will have an improved contrast ratio of 40,000:1 (2,000,000:1 dynamic) and the ability to display the equivalent of 6,144 steps of gradation, providing deep black levels and accurate colors that will give the image a higher level of depth.

SPECS FOR THE 85" TH-85PF12U

RESOLUTION	Full HD (1920 x 1080)
DISPLAY SIZE	85"
DIMENSIONS	79.4" x 47.1" x 3.9"
CONTRAST RATIO	40,000:1 (Typical)
DISPLAY TECH	Plasma
WEIGHT	260.2 lbs
WARRANTY	1 Year Parts & Labor
SPECIAL FEATURES	Optional Touch Panel, Expandable LAN and Custom Plug-in Architecture, NeoPDP™ technology, optional TY-FB10WPV Wireless Presentation Board, 3D Ready

AVAILABLE MODELS

TH-42PF30U	42"
TH-42PF50U	42"
TH-50PF50U	50"
TH-60PF50U	60"
TH-65PF30U	65"
TH-85PF12U	85"

Panasonic 3D Plasma Line

65" & 85" 3D Plasma Displays

These new 3D Premiere Series Full HD 3D plasma displays — the TH-85VX200 and TH-65VX300U, maintain the Panasonic plasma essentials shared by the VX100 Premiere Series — superior image quality and world-class support — while adding some additional enhancements such as ultra-high-speed drive technology and newly developed short-decay-time phosphors and high-precision Motion Vector Prediction to dramatically reduce the double image that adversely affects 3D image quality. They work together to fill large screens with the ultimate in powerful, lifelike images.



8,192 equivalent steps of gradation (TH-85VX200U) boost detailed expression, making it possible to display FULL HD 3D images while also translating to a remarkably high-level of performance when displaying 2D images as well. The color expression that is achieved by 8,192 equivalent steps of gradation, and the smoothness with which it renders intermediate colors combine to create tonal nuances that have never before been possible.

- Full HD (1920 x 1080) Resolution
- 5,000,000:1 Dynamic Contrast Ratio
- 3D Ready
- Networking and PLink Compatible

TH-65VX300U	65"
TH-85VX200U	85"



Panasonic Broadcast Line

42" & 50" Plasma Displays

Designed primarily for broadcast and post-production use, the BT300 series include the ability for users to customize the color gamut response to their needs as well as many other studio-grade features never found before on a plasma display monitor.

The BT300 Series offers superb images with stunning colors for displaying materials in all their natural beauty. Six modes are provided, including the color gamut modes for broadcasting and post-production use including (SMPTE-C/EBU/ITU-R) and Digital Cinema Color and Native. Custom mode allows you to set the hue for each RGB color while viewing a simplified chroma diagram.



The BT300 Series also provides a motion-image performance that is 1.5 times that of conventional models. The Full HD moving picture resolution speed index is 1,200 pps (1,080 lines of moving picture resolution). This treats viewers to steady, blur-free, fast-moving images such as sports scenes and action films.

- Full HD (1920 x 1080) Resolution
- 3D Ready
- 5,000,000:1 Contrast Ratio

TH-42BT300U	42"
TH-50BT300U	50"



Panasonic Professional LCD Line

LF30 Series Displays

Panasonic Digital Signage Solutions offer a wide range of technologies that enhance messaging capabilities including hardware, software, installation and support. Included in Panasonic's Professional LCD line are the LF25 Series and LF30 Series.



Along with the Full HD resolution and the wide viewing angle of the IPS panel, the LF25 Series features 500-cd/m2 brightness and 9-ms response. This makes it possible to display crisp, clear images even in bright places, for signage or any other application that requires a bright LCD housed in a stylish yet eco-friendly design.

In addition to the high resolution of Full HD and the wide viewing angle of the IPS panel, the LF30 Series features 700-cd/m2 brightness and 9-ms response. This makes it possible to display crisp, clear images even in bright places, for signage with excellent information transmission performance. The SLOT2.0 function slot on the LF30 Series greatly expands the display's range of applications. It lets you mount an optional function board to suit your application.

- Full HD (1920 x 1080) Resolution
- 50,000 Hour Panel Life
- 1,200:1 Typical Contrast Ratio
- 5 Year Parts & Labor Warranty

TH-42LF30U	42" / SLOT 2.0 Function / 0.72" Bezel	TH-47LF30U	47" / SLOT 2.0 Function / 0.73" Bezel
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Panasonic Hospitality LCD Line

32", 39", 42", 50" & 65" Hospitality Displays

Panasonic's hospitality series was designed for easy connection to many external devices while existing devices can be quickly linked via the RS-232C interface. Soundbar-type home theater systems and other high-end audio systems can also be added by digital connection. These stylish matte-black displays come fully-equipped with many functions that not only enhance the viewing experience, but also increase hotel security by including a locking, rotating pedestal stand. With 3 second boot times, users can begin taking advantage of these displays virtually instantly.



- Initial Volume Level - sets sound level when display is turned on
- Maximum Volume Level - limits the sound level that users can access
- Button Lock - limits use of certain buttons on display unit / Input Lock - locks input source in place
- Initial Input - used to display a certain source each time the power is turned on
- Remoon User Level - restricts access to certain buttons on the remote control
- Customizable Welcome Screen - an image can be loaded and displayed when LCD is powered on

TH-32LRU60	32" / WXGA / LED	TH-50LRU60	50" / Full HD / LED
TH-39LRU60	39" / Full HD / LED	TH-65LRU60	65" / Full HD / LED
TH-42LRU60	42" / Full HD / LED		





Simplify Your Message and Your Business.

Partnering with the best in the industry, Samsung has developed a new and dynamic way to deploy and manage digital signage.

The Samsung SMART Signage Platform is an integrated, open-source platform that eliminates the need for external media players and streamlines the deployment process, saving time and money for integrators and businesses alike.

Powered by an SDK and recognized signage experts who bring their industry proven solutions, the Samsung SMART Signage Platform provides the tools necessary to simply deploy digital signage networks with everything integrated right into the display.

From retail to restaurants, healthcare to hospitality, transportation to teaching, the Samsung SMART Signage Platform will allow users to deliver dynamic content and messaging to their audiences while creating new opportunities and customer experiences.



A Simple, Cost-Effective Turnkey Solution

Samsung SMART digital signage displays offer a powerful streamlined solution that reduces the total cost of ownership for digital signage deployments, providing savings in hardware, installation and operating costs. Software can be developed for your specific application, for seamless content delivery with lower TCO. The Samsung SMART signage platform is compatible with the following 2013 Samsung series: PE-C, ME-C and MD-C.



Customized Solutions

Backed by a stable of top-tier software developers and solution providers, customers will have access to some of the most successful signage experts in the world, to assist in creating customized solutions. The platform will make life easier for any organization looking to transition from static signage to rich, dynamic digital displays.



Open Source Software Platform

Samsung's Software Developer Kit (SDK) open source platform allows the software community to develop a customized solution. End users can benefit from third-party development of apps and content, or end users can develop custom apps utilizing their own development team.



System on Chip Technology

The embedded media player features a 1GHz dual core CPU, 512KB cache, 1GB DDR3 dual 32-bit memory, high-performance video processing and 4 or 8GB FDM storage (varies by model). It provides as many possibilities as you have ideas.



Samsung LED LCD Panels

Samsung is the global leader in flat panel display technology, and our LED LCD panels are renowned throughout the display industry for their sharp text, rich color and long-lasting reliability. Samsung's quality and performance are second to none.



Extensive Content Support

Samsung's Smart Signage Platform supports a wide range of 1920 x 1080 video and audio codecs, including those with extensions .avi, .mkv, .asf, .wmv, .mp4 and many more.

INNOVATION #4,928

A Full Line of Ultra-Efficient LED-Backlit LCD Displays

Light by design.
Heavy on performance.



At Samsung we know what your customers demand. That's why our full line of ultra-thin, ultra-light LED-backlit displays support unparalleled AV integrators with ease of installation, efficiency and beauty. From light-usage to mission-critical video walls, our best-in-class displays help lower costs without sacrificing quality. Because at Samsung, it's not just business. It's business, innovated.

Learn more ▶ 1-866-SAM4BIZ | samsung.com/commercialdisplay | [Business. Innovated.](#)

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SAMSUNG MD-C Series

Affordable Commercial LED Displays



The Samsung MD-C Series is a real crowd pleaser. Being low-power-consuming LED-backlit displays, they're more affordable to deploy & contribute to lower ongoing operating costs. The reduced power consumption makes them eco-friendly too, a fact that aligns with most any company's green strategy. Available in four sizes of 32", 40", 46" & 55", the MD-C Series displays are a highly reliable and highly cost-efficient solution ideal for retail environments, quick serve restaurants, meeting rooms, public spaces and more. The displays feature an integrated TV tuner to display broadcast programming, and you have the opportunity to save even more with the SMART Signage Platform.

- 32", 40", 46", and 55" LED Displays
- Full HD (1920 x 1080), 5000:1 Contrast Ratio
- Slim Design & Easy Installation
- Integrated HDTV Tuner
- Direct-Lit LED
- SMART Signage Platform
- 3-Year Onsite Parts and Labor

MD32C	32"
MD40C	40"
MD46C	46"
MD55C	55"



SAMSUNG ME-C Series

Commercial LED Displays



The ME-C Series is proof that you can control your messaging as seamlessly as you deploy it. Featuring a sleek, stylish design aesthetic, these ultra-slim and lightweight edge-lit displays deliver a high-resolution screen and integrated TV tuner, with simple display control through the RS232C and RJ-45 ports. Increased energy savings of 35% or more over CCFL backlit displays means a lower TCO, with even more opportunity to save money (and headaches) with the SMART Signage Platform functionality. And the ultra-slim chassis with slim bezel design helps simplify installation and provides a more impactful message in any setting from retail to restaurants, or public spaces to conference rooms.

- 32", 40", 46", and 55" LED Displays
- Full HD (1920 x 1080), 5000:1 Contrast Ratio
- Edge-Lit, Ultra-Slim HD LED Screen
- Optional Touch Overlay
- Integrated TV Tuner
- SMART Signage Platform
- 3-Year Onsite Parts and Labor

ME32C	32"
ME40C	40"
ME46C	46"
ME55C	55"



SAMSUNG PE-C Series

Ultra-Slim Commercial LFD Displays



When the message needs to make an impact day in and day out, the Samsung PE-C Series LFD displays are up to the task. Available in three sizes of 40", 46" and 55", the displays deliver an enhanced visual experience in environments where 24/7 matters, such as airports, restaurants and command centers. The edge-lit LED screens in Full HD deliver amazing detail-rich imagery, the ultra-slim and lightweight design ensures installation flexibility, and the glare-proof surface means your message, not reflections, come through loud and clear. These LFDs also feature Samsung's SMART Signage Platform, which means you'll minimize hassles and TCO. The new PE-C Series. Absolutely brilliant. All the time.

- 40", 46", and 55" LED Displays
- Full HD (1920 x 1080), 4000:1 Contrast Ratio
- Reliable 24/7 Continuous Operation
- Edge-Lit, Ultra-Slim HD LED Screen
- Open Pluggable Specification (OPS) Compliant
- SMART Signage Platform
- 3-Year Onsite Parts and Labor

PE40C	40"
PE46C	46"
PE55C	55"



SAMSUNG H Series

Commercial LED Displays



Sports. Current events. Highlighting a menu or a retail sale. Display it all with the Samsung H Series HDTV Commercial displays. Featuring an integrated high-definition TV tuner, broadcast content like playoff games or current events in sharp, beautiful high resolution. Display proprietary content, like menus, retail sales announcements, sales videos, artwork and virtually anything else. And with direct-lit LED technology, do it with the superior picture quality of LED, at a cost that's affordable to any business. It's a TV. It's a display. It's an affordable display that gives you everything.

- 32", 40", and 46" LED Displays
- Full HD (1920 x 1080), 3500:1 Contrast Ratio
- Thin side bezels of just 17.7 mm (32") and 18.5 mm (40"/46")
- Integrated TV Tuner
- USB Digital Signage Media Player
- Built-in Speaker, Plug and Play (through USB), PIP/PBP, Narrow Bezel, Light Weight, Built-in Button Lock
- 2-Year Onsite Parts and Labor

H32B	32"
H40B	40"
H46B	46"



SAMSUNG LE-C Series

Commercial LED LCD Displays



As the largest manufacturer of LED backlit displays in the world, Samsung is synonymous with performance and proven reliability. Add affordability to the list with the Samsung LE-C Series Commercial LFD displays. Available in three sizes of 32", 46" and 55", the LE-C Series features an ultra-slim, lightweight design that delivers a vibrant and engaging visual experience 24/7. It's a highly reliable and highly cost-efficient solution ideal for round-the-clock use in environments such as airports, quick serve restaurants and command and control centers. The Samsung LE-C Series. Affordable, flexible, professional. It sends all the right messages.

- 32", 46", and 55" LED Displays
- Full HD (1920 x 1080), Up to 4000:1 Contrast Ratio
- Slim Design & Easy Installation
- 24/7 Approved
- Edge-Lit LED Screen
- Ultra-Slim 2" Chassis
- Compatible with Intel® OPS
- 3-Year Onsite Parts and Labor

LE32C	32"
LE46C	46"
LE55C	55"



SAMSUNG ED-C Series

Direct-lit LED Displays



Be impressive. Be big and brilliant and beautiful. With the Samsung ED-C Series direct-lit LED commercial displays, step up to the performance and cost-efficiencies that LED technology offers. The ED-C Series offers a full range of sizes, from 32" all the way up to 75". Pictures are sharp and bright. Energy use is low. And the displays keep costs within virtually every budget by offering only the features and connectivity options you need. Enjoy all the benefits of LED, for about the same cost as traditional CCFL backlighting. It's a simple, reliable, affordable solution that will benefit businesses. And of course, it's from Samsung.

- 32", 40", 46", 55", 65", and 75" LED Displays
- Full HD (1920 x 1080) (32": 1366 x 768), Up to 5000:1 Contrast
- Slim Design & Easy Installation
- Optional Touch Overlay
- Direct-Lit LED Backlight
- 3-Year Onsite Parts and Labor

ED32C	32"
ED40C	40"
ED46C	46"
ED55C	55"
ED65C	65"
ED75C	75"



SAMSUNG 890 Series

Ultra-Thin Hospitality TVs



The Samsung 890 Series delivers the ultimate in-room guest experience. With exceptional picture quality and sound, these stylish displays treat guests to a totally immersive HD viewing experience. Best of all, each display is a Smart TV, giving guests a whole new level of interactivity that's exclusive to Samsung. With Smart TV 2.0, smart mobile device support, embedded features and access to a multitude of apps and widgets are now part of the hotel experience. There's a host of innovations for the hotelier too, like energy-saving performance and remote content management for cost savings and greater efficiency.

- Premium Edge-Lit Ultra-thin LED Technology
- Smart TV 2.0
- Samsung LYNK™ SINC Interactive Content Management System
- Samsung LYNK REACH 2.0 Content Management Solution
- H-Browser Compatibility
- Mobile Device Integration AllShare™ Cast

HG46NB890QFXZA	46" / FHD (1920 x 1080)
HG55NB890QFXZA	55" / FHD (1920 x 1080)
HG65NB890QFXZA	65" / FHD (1920 x 1080)



SAMSUNG 690 Series

Premium Slim Hospitality TVs



Whether it's a casual vacationer or a seasoned business traveler, today's guests demand a premium in-room entertainment experience. The Samsung 690 Series delivers it. Each display is a Smart TV, giving guests a whole new level of interactivity. With Smart TV, guests can watch movies and TV shows from streaming services, instantly check Facebook, Twitter and Skype to stay connected, and even push content from their personal devices to the big screen. The 690 Series features direct-lit LED technology, for all the benefits of LED, yet at a lower cost. It's premium entertainment without the premium.

- Premium Slim Direct-Lit LED Technology
- Smart TV 2.0
- Samsung LYNK™ SINC Interactive Content Management System
- Samsung LYNK REACH 2.0 Content Management Solution
- H-Browser Compatibility
- Mobile Device Integration AllShare™ Cast

HG32NB690QFXZA	32" / FHD (1920 x 1080)
HG40NB690QFXZA	40" / FHD (1920 x 1080)
HG46NB690QFXZA	46" / FHD (1920 x 1080)
HG55NB690QFXZA	55" / FHD (1920 x 1080)



SAMSUNG 678 Series

Hospitality TVs



Enhancing the guest experience in a hassle-free and budget-friendly way is a very exciting proposition. It's exactly what you get with the Samsung 678 Series Hospitality TVs. These innovative 40" and 46" displays feature direct-lit LED technology, for all the benefits of LED, yet at a lower cost. LED uses 50% less energy than CCFL backlighting. Content management is another plus. It's easier than ever with the Samsung REACH 2.0 content management solution. And LodgeNet® integration ensures the TVs work right out of the box. But your guests won't know anything about that. They'll be too immersed in an amazing Samsung HD experience.

- Slim Direct-Lit LED Technology
- Samsung LYNK™ REACH 2.0 Content Management Solution
- Samsung LYNK HD Content Decryption
- Pro:Idiom™ DRM
- b-LAN™ (LodgeNet® Integration)

HG40NB678FFXZA	40" / FHD (1920 x 1080)
HG46NB678FFXZA	46" / FHD (1920 x 1080)



SAMSUNG 677 Series

Hospitality TVs

The Samsung 677 Series is designed to deliver the entertainment today's guests demand. Available in 28", 32", 40" and 46" sizes, they feature direct-lit LED technology, so you can deliver a heightened viewing experience that guests are sure to appreciate. Guests get stunning Samsung picture quality, while your customers enjoy a cost of entry similar to that of a CCFL back-lit option. LED also uses up to 50% less energy, helping you conserve and save money. The Samsung REACH 2.0 management solution makes content management simple. Samsung's LYNK DRM technology protects content, while offering guests a seamless viewing experience.

- Slim Direct-Lit LED Technology
- Samsung LYNK™ REACH 2.0 Content Management Solution
- Samsung LYNK HD Content Decryption DRM
- Pro:Idiom™ DRM

HG28NB677BFXZA	28" / HD (1366 x 768)
HG32NB677BFXZA	32" / HD (1366 x 768)
HG40NB677BFXZA	40" / FHD (1920 x 1080)
HG46NB677BFXZA	46" / FHD (1920 x 1080)



SAMSUNG 670 Series

Hospitality TVs

The leading LED panel manufacturer in the world allows delivery of a premium experience to your guests, while still being budget conscious. The Samsung 670 Series Hospitality TVs feature direct-lit LED technology, to deliver all the benefits of LED, while doing it more affordably. Get big, bright, beautiful pictures, while cost of entry is similar to that of a traditional CCFL back-lit option. LED uses up to 50% less energy, helping you conserve and save money. Content management is made simple too, with the Samsung REACH 2.0 management solution. Samsung's LYNK™ DRM technology protects content, while offering guests a seamless viewing experience.

- Slim Direct-Lit LED Technology
- Samsung LYNK™ REACH 2.0 Content Management Solution
- Samsung LYNK HD Content Decryption DRM

HG28NB670BFXZA	28" / HD (1366 x 768)
HG32NB670BFXZA	32" / HD (1366 x 768)
HG40NB670BFXZA	40" / FHD (1920 x 1080)
HG46NB670BFXZA	46" / FHD (1920 x 1080)



Samsung LYNK™ SINC Interactive Content Management System

This IP-based content management solution delivers enhanced HTML and rich text with protocols to communicate between Samsung Interactive TVs and hotel property management software. Facility managers can completely customize the in-room entertainment by unlocking rich content from the Samsung Hospitality Widget Library (Facebook, Twitter, AccuWeather, Google Maps™).



Smart TV 2.0

Experience the next generation of our ground-breaking TVs with Smart Interaction, full web browsers, all-new content, all-new content services, faster processors and much more.



Samsung LYNK REACH 2.0 Content Management Solution

The Samsung REACH 2.0 (Remote Enhanced Active Control for Hotels) Management Solution is used in conjunction with an existing coaxial based infrastructure. It provides centralized TV controls, basic static content management capabilities and an Interactive Program Guide (IPG). Property management will be able to easily update and change information using a Windows®-based system.



Mobile Device Integration AllShare™ Cast

Samsung AllShare™ Cast lets you seamlessly share content across your DLNA connected Samsung devices which includes WIDI without the need for a network cable or a connecting device. AllShare Cast allows screen mirroring and video streaming to enable seamless content sharing.



Premium Edge-Lit Ultra-thin LED Technology

Direct-lit LED technology provides the brilliance and energy savings advantages of LED technology, along with the uniform brightness typical of CCFL displays. And it does it all with an efficiency that makes it a more affordable technology. In fact, it's possible to upgrade rooms to LED technology for a cost comparable to CCFL technology.



H-Browser Compatibility

The Samsung 890 Series offers H-Browser through partnerships with certified system integrators providing guests with a premium interactive experience. Built on the HTML5 standard with Flash® support, H-Browser is a true Smart TV solution that features both free and video on demand (VOD) content. It is able to interface directly with the head end without the use of a set top box.





	UE46C	UE55C
RESOLUTION	Full HD 1080p (1920 x 1080)	Full HD 1080p (1920 x 1080)
DISPLAY SIZE	46"	55"
BRIGHTNESS	500 nit	500 nit
CONTRAST RATIO	5,000:1	5,000:1
DISPLAY TECH	240Hz (Edge-LED Backlight)	240Hz (Edge-LED Backlight)
BEZEL	5.5 mm	5.5 mm
WEIGHT	25.6 lbs	34 lbs
WARRANTY	3-Year Onsite Parts and Labor	3-Year Onsite Parts and Labor



UE-C Series

Commercial LED LCD Displays



Elegant Video Walls for Maximum Impact at an Affordable Price

Cost should never prevent your customers from enjoying the maximum impact of a video wall. That's the whole idea behind the Samsung UE-C Series LCD displays. With a narrow bezel-to-bezel measurement of only 11mm, you can create dynamic video walls that are large, clean and cost-effective. And that means impactful video wall messaging like never before. Screen quality is typical Samsung: Edge-lit LEDs with Full HD resolution and ultra-fast 240Hz panel refresh rates for crystal-clear images and razor-sharp type. It's high-impact presentation that's ideal for retail environments and public spaces. Or anywhere where big statements are needed... at a budget conscious cost.

- **Edge-Lit, Ultra-Slim LED Screen**

The edge-lit 46" and 55" displays feature 1920 x 1080 Full HD resolution with 500 nits brightness and 5000:1 contrast ratio for detail-rich images and crisp type. And the stylish 1.2" thin chassis gives video walls maximum impact. It also helps simplify installation while meeting ADA compliance requirements.

- **Narrow Bezels**

The thin bezels of 5.5mm on the UE-C Series add sophisticated good looks and make more seamless video walls.

- **Lower TCO**

LED technology consumes an average of 40% less power, for lower total cost of ownership. LED technology also contains no mercury, which is easier on the environment.

- **SMART Signage Platform**

This integrated, open platform provides a powerful streamlined solution that reduces TCO for digital signage deployments, providing savings in hardware, installation and operating costs.

UD-C Series

Commercial LED LCD Displays



Virtually Seamless Video Walls with Advanced Technology

Make sure all the attention is on the video wall, and not on the space in between. The Samsung UD-C Series 46" and 55" displays feature a bezel-to-bezel width of just 5.5mm, to deliver impressive, high-resolution video walls that are virtually seamless. Direct-lit LED technology delivers a rich, bright, 1920 x 1080 Full HD picture that commands attention, while being cost efficient, as well as conserving energy. Advanced Color Calibration provides factory-calibrated color for precisely tuned Brightness, Color Temperature and Gamma. Deliver maximum impact with these premiere video wall displays. With the Samsung UD-C Series commercial displays.

- **Advanced Color Calibration**

UD-C Series displays are factory tuned for Brightness, Color Temperature and Gamma. They deliver optimal uniformity and impressive images right out of the box.

- **Advanced Color Management**

Fine-tune images through Samsung's new Advanced Color Management solution. A user-friendly interface makes detailed color adjustments simple (UD46C, UD55C models only).

- **DisplayPort 1.2**

The DisplayPort 1.2 digital loop out feature allows content to be easily shared across video walls up to 10x10; including the ability to fully support Ultra High Definition resolution on 2x2 video walls. It is an easy and cost effective way to connect multiple displays.

- **Sharp, Bright, Impactful**

Full HD 1920 x 1080 resolution and brightness levels of 700 nits (450 nits on UD46C-B) ensure a clear, vibrant video wall that's easy to look at and hard to ignore.

- **Direct-Lit LED**

Direct-lit LED technology with a new backlight dimming solution allows the UD-C Series display to achieve deeper blacks, higher contrast ratio of 3500:1, and power savings of up to 30%.

- **Ultra-Slim Bezels, Virtually Seamless Video Walls**

The minimized bezel gap of just 5.5mm is crucial to the virtually seamless video wall experience that the UD-C Series delivers. It's ideal for control rooms, the medical sector, conference rooms, broadcasting stations, transportation hubs, lobbies and retail.



	UD46C	UD55C	UD46C-B
RESOLUTION	Full HD 1080p (1920 x 1080)	Full HD 1080p (1920 x 1080)	Full HD 1080p (1920 x 1080)
DISPLAY SIZE	46"	55"	46"
BRIGHTNESS	700 nit	700 nit	450 nit
CONTRAST RATIO	3,500:1	3,500:1	3,500:1
DISPLAY TECH	60Hz (Direct-lit LED Backlit LCD)	60Hz (Direct-lit LED Backlit LCD)	60Hz (Direct-lit LED Backlit LCD)
BEZEL	3.7mm (U/L), 1.8mm (R/B)	3.7mm (U/L), 1.8mm (R/B)	3.5mm (U/L), 2.0mm (R/B)
WEIGHT	39.6 lbs	52.8 lbs	40 lbs
WARRANTY	3-Year Onsite Parts and Labor	3-Year Onsite Parts and Labor	3-Year Onsite Parts and Labor



Professional LED Displays

Sharp Ultra-Large PN-R Series

For realistic imagery and dramatic impact, the PN-R903 is second to none. When positioned in portrait mode, the ultra-large 90" class (90-1/16" diagonal) screen is capable of displaying people at their actual height, making it an ideal choice for the fashion and retail industries. But the possibilities don't end there. Wherever maximum visibility is key—such as shopping malls, museums, transportation hubs, stadiums, conference centers and more—the PN-R903 will draw the admiration of virtually any audience.

Bigger doesn't have to mean more complicated. Until now, creating true-to-life images meant building a 2 x 2 video wall using four smaller individual displays. With a single PN-R903, you can achieve the same visual effect, but simpler. Mount, calibrate and connect a single PN-R903 in less time and with less equipment. And a PN-R903 may consume less energy than a typical 2 x 2 video wall, further reducing costs and resources.

90" PN-R903 MODEL HIGHLIGHTS

- Magnificent 90" Class (90-1/16" diagonal) Screen Size
- Brilliant High Definition (1920 x 1080) LED Display
- Local Dimming energy efficient technology
- 700 cd/m2 Brightness
- 1,000,000:1 (local dimming-High) 4000:1 (local dimming-Off) Contrast Ratio
- Landscape and Portrait Mode Compatible
- Engineered for 24/7 Commercial Use; 3-Year Onsite Limited Warranty
- Also available in 70" (PN-R703) and 60" (PN-R603)



AQUOS Board™ SHARP

Sharp PN-L Series Interactive Display Systems

Imagine your greatest ideas displayed in Sharp AQUOS® HD 1080p brilliance. Now in three spectacularly large class sizes, the AQUOS BOARD brings greater collaboration & interactivity to presentations, web conferences and class lessons. That's the power of the Sharp AQUOS BOARD lineup of interactive display systems—the new cutting-edge in large format display technology.

Using the intuitive, accurate dual-touch screen & included Sharp Pen Software™, the presenter can open and close documents, enlarge or shrink images, even make annotations—all with the touch of a finger or the included pen. Add in the optional AQUOS BOARD PC with powerful processor, brilliant color full HD images and full array LED backlight, and you've got an all-in-one solution.



HIGHLIGHTS

- Spectacular 80" class (PN-L802B), 70" class (PN-L702B) and 60" class (PN-L602B) screen sizes
- Engineered for 24/7 commercial use
- Brilliant high definition LCD panel with energy-efficient design
- Display, annotate, store and share information
- Intuitive dual-touch operation using pen or finger
- Exclusive Sharp Pen Software™
- Built-in templates: calendar, to-do list and more
- Direct Sharp Multi-function printer connectivity to import/export data

Video Wall Monitors SHARP

Sharp PN-V Series 60" Ultra Slim Bezel LED Video Wall Display

With exceptionally bright LED backlighting and the slimmest bezel in the 60" class size, the Sharp PN-V601/V602 let nothing stand between your message and your audience. With up to an incredible 1,500 cd/m² of brightness in the PN-V602 and up to 700 cd/m² of brightness in the PN-V601, these 60" Class LED video wall monitors are the perfect choice for large venues with high ambient light.

Ultra-slim bezels make the line between neighboring monitors an almost seamless 6.5 mm wide (2.4 mm right and bottom, 4.1 mm left and top). This allows for the dynamic display of large, crisp, images that catch the eye and capture the attention.



And, since these multi-monitor configurations can be effortlessly set up almost anywhere space allows, the only thing left to do is tap your imagination and explore all the possibilities the video wall has to offer! These professional-grade products are rugged enough for continuous 24/7 operation in the most demanding professional applications.

IDEAL FOR

- Stadiums
- Shopping Malls
- Museums
- Airports
- Control Centers



Digital Signage & Data Display SHARP

Sharp PN-E Series LED and LCD Displays

The PN-E Series monitors are professional-grade LED and LCD digital signage displays built to withstand the rigors of professional use. Operate these workhorses around the clock and still enjoy stunning image quality and uniform brightness.

The PN-E Series models are no ordinary professional LED and LCD display monitors. Ranging in size from 42" class (42 1/16" diagonal) to 80" class (80" diagonal), these durable signage solutions offer versatile installation, outstanding image quality, and 24/7 reliability that add up to extraordinary performance.



IDEAL FOR

- Conference rooms
- Hotel or office lobbies
- Trade show exhibit halls
- Classrooms and lecture halls
- Indoor shopping plazas and retail spaces

LED BACKLIGHTING

- 80" - PN-E802 (full array)
- 70" - PN-E702 (full array)
- 60" - PN-E603 (edge lit)

CCFL BACKLIGHTING

- 60" - PN-E602
- 52" - PN-E521
- 47" - PN-E471RP
- 42" - PN-E421P





Marquee Series

True Outdoor All-Weather Digital Signage Display

SunBriteTV's award-winning Marquee Series digital signage TVs and monitors are perfect for outdoor commercial use ... or as THE ultimate all-weather, outdoor TV.

The Marquee Series features high temperature Extended Solar Tolerance (EST) technology - meaning they are protected from isotropic blackout, an occurrence when TV monitors are placed in direct sunlight. But our Marquee Series brave the sun and are direct-sunlight readable. They are quite capable in high heat or frosty temps. A 2-year warranty is included for commercial or home use.

55" Display (Black Chassis)	DS-5507ESTL-BL
47" Display (Black Chassis)	DS-4707ESTL-BL
32" Display (Black Chassis)	SB-3204ESTL-BL

ALSO AVAILABLE IN SILVER.

SunBriteTV
True Outdoor Television

- Direct Sunlight-Readable 700 NIT LCD screen.
- High temperature Extended Solar Tolerance (EST) technology prevents isotropic blackout.
- Exterior designed to protect internal components from rain, dust, insects, humidity, and salt air.
- Multi-fan airflow system keeps the unit cool and dry in temperatures up to 122 degrees F.
- Ability to operate in cold weather (-40 degrees F).
- Front tempered anti-reflective glass window provides added protection to LCD screen, and safeguards against vandalism and abuse.
- Innovative water-tight Cable Entry System seals out moisture and allows for easy hook-ups.
- Powder-coated aluminum exterior and Weatherproof remote control
- Exite Award winner, Top Product 2012, Custom Retailer, and CEPro's Best Electronics Systems Technologies, 2012.

SunBriteTV 32" Signature Series

True Outdoor Television

Outdoor TV Signature Series

32" Signature Series True Outdoor, All-weather HDTV.

Perfect for deck, pool, patio and outside kitchens. Available in white, silver or black, this outdoor TV makes a elegant addition to any area that requires a touch of entertainment.

Cover when not in use, or uncover to watch the game, news or a favorite show. Under the stars or under the sun, the rugged 3260HD will laugh off rain drops and shun salt air. Includes a 2-year parts and labor warranty.

- 1366 x 768 HD resolution - Specifically designed and engineered to resist rain, dust, insects, humidity, and salt air.
- Perfect for pool, deck, patio, BBQ areas and outside kitchens.
- Built-in air flow cooling system to operate in extreme heat (122 degrees F).
- Ability to operate in cold weather (-24 degrees F).
- ASA outdoor rated high-impact resin exterior for outstanding strength and durability.
- RS232 control feature set to maximize system integration and programming security.



SunBriteTV 65" Signature Series

True Outdoor Television

Outdoor LED TV Signature Series

Perfect for the ultimate outdoor deck, patio, pool, or BBQ area. This Signature Series all-weather 6560HD includes a 2-year warranty for residential OR commercial use.

Dressed to impress with powder-coated aluminum for "strong like bull" durability. Styled for serious outdoor presentation and presence.

- 65" Signature Series True All-Weather LED Outdoor Television for Permanent Outdoor Installation.
- 2012 Residential Systems Award (RESI) winner, Best AV Player/Server.
- Bright Full HD 1080p 240 Hz LED screen for improved outdoor viewing.
- Powder-coated aluminum exterior for outstanding strength and durability.
- Exterior designed to protect internal components from rain, dust, insects, humidity, and salt air.
- Multi-fan Airflow system keeps the unit cool and dry in temperatures up to 122 degrees F.
- Internal Thermostatically-Controlled Heater protects TV in temperatures as low as -24 F.
- RS232 serial control feature set to maximize system integration and programming security.
- Innovative Water-tight Cable Entry System seals out moisture and allows for easy hook-ups.



► Play



scan.me/hdkxxz

WATCH A SUNBRITETV BATTLE THE ELEMENTS...

AND A BEAR!



SunBriteTV 55" Pro Series

True Outdoor Television

Outdoor HD television

Ah, a true champion! The SunBriteTV Pro Series 55" outdoor HD television is a leader among leaders. A front protective tempered glass protects the screen (a feature included on ALL Pro Series models).

Perfect if the intended use is by an active, playful area, such as a pool - with volleyballs or Frisbees tossed around. The protective glass will shield the TV screen from potential damage. Designed for permanent outdoor installation, and endless days of entertainment, instruction or advertising.

- 1920 x 1080p Full HD resolution
- Specifically designed and engineered to resist rain, dust, insects, humidity, and salt air.
- Built-in air flow cooling system to operate in extreme heat (122 degrees F)
- Ability to operate in cold weather (-24 degrees F)
- ASA outdoor rated high-impact resin exterior for outstanding strength and durability
- RS232 control feature set to maximize system integration and programming security

TOTEVISION LED-2361HDMT

23.6" LED Monitor with Tuner, Metal Case



ToteVision's digital signage monitor with TV tuner provides a stunning HD picture on a smaller scale for more personal viewing.

- True HD (1080p/i) with no downscaling
- LED backlight – brighter picture using less power
- Widescreen (16:9) native aspect ratio
- Metal case – front even bezel, no front controls; VESA mounting pattern
- ATSC/QAM TV tuner
- IR remote control
- RS-232 control

TOTEVISION LED-4201HDMT

42" High-Definition Monitor



This LED-backlit slim design monitor with tuner features the latest technology with enhanced picture clarity and sharpness for both analog and digital video signals.

- ADA compliant slim design with only 16mm (2.4") depth
- True HD (1080p/i) with no downscaling
- LED backlight – brighter picture using less power
- Great picture quality - 10 Bit / 120Hz
- Wide viewing angle (89/89/89/89)
- ATSC / QAM Tuner
- Widescreen (16:9) native aspect ratio
- Built-in stereo speakers
- Built-in removable desk stand
- IR remote control
- RS-232 control

TOTEVISION AIO-5501

Multi-Functional 55" Monitor



This multi-functional 55" video monitor includes an ATSC/QAM TV tuner and integrated PC with multi-touch capabilities. Ideal for use in training and education environments, in broadcast production, or in any application that benefits from onboard computing that utilizes touch screen functionality.

- Full HD display - 1080p/i with no downscaling
- LED backlight - brighter picture using less power
- ATSC/QAM TV tuner (10 bit / 120Hz)
- 3D adaptive comb filter
- Intel Core i5 processor with 2GB DDR3 memory
- Multi-touch screen panel (IR transmission)
- Wide-viewing angle
- Built-in removable desk stand
- IR remote control

TOTEVISION LED-1211VB

12.1" Sunlight Readable LED Monitor

- LED backlight provides longer life, uses less power and provides better color saturation
- Ultra-bright technology provides sunlight readability
- Mercury and lead free green design
- High shock and vibration resistance
- On-screen display for: brightness, contrast, back light, hue
- Composite, S-Video, PC capability
- Low power consumption
- Case made of durable steel
- Active matrix technology allows wide viewing angle
- Front controls for Power, Menu, Up/Down
- Built-in interface for wall or arm mounting VESA 75mm FPMPM compliant
- Response Time: 23ms



TOTEVISION LCD-1701TS / TSL / TSR

17" LCD Touch Screen Monitor

This high performance touch screen monitor is made for use in a 24/7 environment; ideal for client security and AV applications.

- 17" LCD Touch Screen Monitor
- 5 wire resistive touch screen
- Wide viewing angle
- Low power consumption
- Very wide viewing angle (85/85/85/85)
- 4:3 native aspect ratio
- Can function between 32° – 122°F
- Built-in speakers
- Built-in removable desk stand
- 100mm pattern for mounting

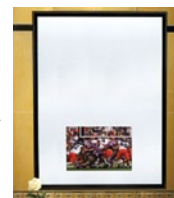


TOTEVISION LED-1543MM

15.4" LED TV Mirror Mounted TV

This new TV concept integrates into a mirror and vanishes when the TV is turned off. It is gaining popularity in lounges, sports arenas, and in residential bathrooms.

- 40" x 30" mirrored glass in black frame; – 2 1/2" surface mount depth
- Widescreen 16:9 native aspect ratio
- ATSC/QAM TV tuner with combined off-air/cable signal capability
- Composite In/Out
- Built-in stereo speakers
- Easy and straightforward installation
- IR remote control



TOTEVISION LCD-703HDL / HDLX / HD1 / HD2

7" Field Monitor

This versatile high-definition monitor is designed primarily for field broadcast and video production, and remote surveillance applications. Multiple mounting options and battery pack options are available.



- HD compatible (supports 480p/i, 576p/i, 720p, 1080p/i)
- Both component & HDMI inputs accept 1080p/i
- LED backlight provides longer life and uses less power
- RS-232 allows external devices to control the monitor thru the serial port
- Underscan capability
- Blue gun feature provides for easy adjustment of screen display
- Anti-glare treatment adds to viewing pleasure
- Displays either 16:9 or 4:3 aspect ratio
- Front controls for: Menu, Up, Down, On/Off, Mode
- IR remote control
- Case made of durable metal
- A/C adaptor (Part No. AC-1000) included
- Built-in interface and proper cable exiting for wall or arm mounting VESA
- 75mm FPMPM compliant
- Response time: 22ms (Rising), 35ms (Falling)
- Mounting pad with 1/4-20 threaded socket

TOTEVISION LCD-842HD / HDL / HDLX / HD1 / HD2L

8.4" High-Definition Monitor

A popular high-definition, small screen monitor that is used for a variety of applications ranging from security surveillance to video production.

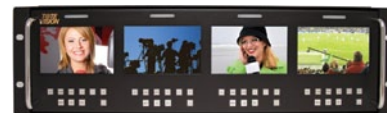
- 8.4" HD monitor
- Blue gun feature provides for easy adjustment of screen display
- Underscan capability
- Self-powered 3-color tally system
- Active matrix technology allows for wide-viewing angle
- Built-in memory saves current setup when unit is powered down
- Scaler accepts 640 x 800, 800 x 600, 1024 x 768, 1152 x 864, and 1280 x 1024
- Response Time: 15ms rising / 25ms falling
- Built-in color bar generator
- Direct source selector buttons
- Displays 4:3 native aspect ratio with 16:10 capability
- Includes moveable 1/4-20 mounting pad that can be mounted on top or bottom



SPECS APPLY TO THE LCD-842HD. SPECS FOR OTHER MODELS MAY VARY.

TOTEVISION LED-430x4-3GSDI

10.4" HD LCD Monitor



Functional and beautiful, this new generation model includes four LED-backlit, LCD monitors in a rack mount configuration. Each 4" monitor includes a native 3G-SDI input signal that is SMPTE 424M compliant, handling bit-rates of 2.97Gbit/sec which supports 1080p video up to 60 frames per second.

This model is an ideal solution for broadcast studio environments that distribute and monitor VOD 1080p streams.

- 3G/HD/SD-SDI Input and Output
- Quick access source buttons
- Wide viewing angle
- Up/Down tilting
- Tally function

ViewSonic® Free Standing Digital ePosters

Interactivity Meets Advertising

In-store "Way-finding" is easy with ViewSonic's new interactive ePoster display solutions. And in-store messaging is perfect for getting shoppers' attention at their purchase decision time. Great for announcing sale promotions, computer-generated information or communicating a multimedia experience with audio, music, or video. It is easy to upload, manage or change content.

ViewSonic's new ePoster products make it easy to replace those old backlit printed signs with new impactful high-definition digital posters. These new ePoster products feature built-in memory for storing high impact graphics as well as a powerful management tool featuring a content scheduler, duration timer and special effects editor for image transitions. Easy loading of content is provided through USB port or can be connected to a network with the RJ-45 Ethernet connection. ViewSonic's new ePoster products are available in various sizes and models and can be free standing or wall mounted.

Featured Model Specs: eP5555T

- 55" Full HD ePoster featuring 1920 x 1080 resolution and tempered glass faceplate for screen protection
- Interactive built-in "one-point" IR touch panel has a 4096 x 4096 touch resolution for accurate selection of data
- All-in-One design provides easy customer deployment with no required construction
- 1 Year Warranty with extended options available
- Dual Internal RISC media player with 2GB CF storage for playing JPEG images and digital video files
- Built-in power outlet and mounting cradle for adding your own media player
- Applications: Retail Advertising, Way-Finding, Hospitality, and Education
- Photo Formats: JPEG
- Video Formats: MPEG 1/2/3, H.264, Xvid 1.00-AVI, MP4
- Audio Formats: WMA, MP3, M4A (AA CC)
- Speakers: 5W (x2)



Product	Screen Size	Resolution	Touch	Connectivity	Internal Storage	File Type Supported
EP4220 Single Sided ePoster	42"	1920 x 1080 Full HD	—	HDMI, VGA, RS-232, PC Audio	2GB storage	Video: MPEG 1/2/3, H.264, Xvid 1.00-AVI, MP4 Photo: JPEG, Audio: WMA, MP3, M4A
EP4610 Single Sided ePoster	46"	1920 x 1080 Full HD	—	HDMI, VGA, RS-232, PC Audio	4GB storage	Video: MPEG 1/2/3, H.264, Xvid 1.00-AVI, MP4 Photo: JPEG, Audio: WMA, MP3, M4A
EP4610T Single Sided ePoster	46"	1920 x 1080 Full HD	Yes	HDMI, VGA, RS-232, PC Audio	4GB storage	Video: MPEG 1/2/3, H.264, Xvid 1.00-AVI, MP4 Photo: JPEG, Audio: WMA, MP3, M4A
EP4646 Dual Sided ePoster	46"	1920 x 1080 Full HD	—	HDMI, VGA, RS-232, PC Audio	4GB storage	Video: MPEG 1/2/3, H.264, Xvid 1.00-AVI, MP4 Photo: JPEG, Audio: WMA, MP3, M4A
EP5502 Single Sided ePoster	55"	1920 x 1080 Full HD	—	HDMI, VGA, RS-232, PC Audio	4GB storage	Video: MPEG 1/2/3, H.264, Xvid 1.00-AVI, MP4 Photo: JPEG, Audio: WMA, MP3, M4A
EP5502T Single Sided ePoster	55"	1920 x 1080 Full HD	Yes	HDMI, VGA, RS-232, PC Audio	4GB storage	Video: MPEG 1/2/3, H.264, Xvid 1.00-AVI, MP4 Photo: JPEG, Audio: WMA, MP3, M4A
EP5555 Dual Sided ePoster	55"	1920 x 1080 Full HD	—	HDMI, VGA, RS-232, PC Audio	4GB storage	Video: MPEG 1/2/3, H.264, Xvid 1.00-AVI, MP4 Photo: JPEG, Audio: WMA, MP3, M4A
EP5555T Dual Sided ePoster	55"	1920 x 1080 Full HD	Yes, one side	HDMI, VGA, RS-232, PC Audio	4GB storage	Video: MPEG 1/2/3, H.264, Xvid 1.00-AVI, MP4 Photo: JPEG, Audio: WMA, MP3, M4A

ViewSonic CDE3201-LED 32" LED Professional Display

The 32" ViewSonic CDE3201-LED professional display features "edge white" LED delivering brilliant image clarity with saturated colors and high contrast. Extended connectivity is provided for easy configuration for business, hospitality and entertainment applications. These features combined with its slim design and energy saving electronics makes the CDE3201-LED an ideal solution for business or video entertainment needs.



- 32" Full HD display loaded with professional features
- Full HD (1920 x 1080) resolution
- Static contrast ratio of 3000:1 with 8ms response time provides high contrast color saturation with fast non-blur clarity
- User programmable hospitality menu with USB Cloning
- RS-232 input for remote automated control
- IR control port supports 3rd party media players
- Stereo speakers with SRS TruSurround HD audio

CDE3201LED	32"
CDE6501LED	65"



ViewSonic CDP5537-L 55" Full HD LED Display

The ViewSonic® CDP5537-L commercial display features Full HD (1920 x 1080) IPS panel technology, fast 120Hz response time and 50,000:1 dynamic contrast ratio. Slim ID design, combined with 33.5mm bezel width makes the CDP5537-L an ideal large screen solution for digital signage applications. Additional features include versatile inputs – HDMI, DVI, VGA, YPbPr and built-in media player utilizing USB storage. Other key features include up to 5x5 tiling for video walls and VGA and DVI loop through support.



- Full HD (1920 x 1080) resolution with 120Hz frame rate
- 50 nits brightness with 50,000:1 DCR
- Energy saving LED backlight
- Built in media player supports movies, pictures, music
- Video wall capable – up to 5x5
- Daisy chain compatible – up to 9 units



ViewSonic TD2420 24" Intuitive Multi-Touch Design

The ViewSonic TD2420 is the perfect solution for both commercial and consumer touch screen applications. With an intuitive multi-touch LED display, interactive stylus, and full HD resolution, the TD2420 delivers a versatile touch solution for use as a POS display, information kiosk, or in hospital and classroom environments. With Windows 8 compatible Dual Point Optical technology, the TD2420 provides a fun and interactive experience to engage users.



- Touch-enabled LED monitor with Dual Optical Touch and Windows 7 / 8 compatibility provides excellent touch control experience
- 1920 x 1080 Full HD Resolution
- 7H scratch-resistant surface hardness helps ensure consistent, high-quality touch experience
- VESA-mountable design allows flexible mounting and display options

TD2220	22"
TD2420	24"





Leader in Digital Signage Media Appliances

IAdea is the leading maker of open-standard digital signage media appliances and digital signboards. IAdea's products have been successfully installed in more than 50 countries.

Founded in 2000, IAdea is dedicated to the development of cutting-edge commercial-grade digital signage players and integrated displays. IAdea's products support the W3C SMIL open platform and the HTML5 content standard, allowing system integrators to quickly customize and tailor to individual project requirements.

IAdea's device technologies power many large-scale digital signage projects, offering proven robustness and lowered total cost of ownership. With offices worldwide, IAdea offers uninterrupted product service throughout the globe.



XDS-1062 10" Digital Signboard

All-in-One, Power-over-Ethernet, Customizable Bezel and Motion Sensor

The XDS-1062 One-Wire Cloud Signboard is the industry's first device integration "Power-over-Ethernet" technology, vastly reducing cost of installation by combining power and networking into just one wire. This unique feature makes it extremely simple to install large number of shelf-edge digital displays. In addition, it greatly simplifies installation of digital signage next to meeting room and classroom doors.

SENSORS FOR RICH PROGRAMMING

Built-in motion sensor and touch buttons allow the unit to deliver the right content depending on whether the viewer is a passer-by or an engaged captive audience. Using the Google Android API, the device allows users to develop custom advanced applications including interactivity, real-time analytics and rich peripheral programming.

SIMPLIFIED DEPLOYMENT

One of the greatest costs in digital signage comes from installation and maintenance. IAdea's unique Power-over-Ethernet technology makes it easy to install digital signage on the packed retail shelf space and outside of meeting rooms and classrooms.

Once the devices are installed, IAdea's large partner ecosystem enables cloud-based management via dozens of approved professional management software options. Device hardware features solid-state storage and advanced low-power computing technology, providing higher reliability for large project deployments. The ability to perform content, configuration, application, and even firmware updates over the cloud greatly reduces maintenance costs during the life cycle of large content networks.

ALSO AVAILABLE:
XDS-1060 (NO POE), XDS-1068 (WITH MULTI-TOUCH)



XMP-2300 Wireless Signage Player

HTML5 Capable Digital Signage Player

Flexible connectivity for hard-to-wire locations

The XMP-2300 provides great flexibility for in-store installation by featuring wireless LAN connectivity. It enables deployment at locations where network wiring is expensive, such as at retail end-caps, isolated retail booths, and display totems.

EASY IN-STORE DEPLOYMENT

The device features the most comprehensive connectivity options, including wireless LAN capability, making it easy to deploy units at in-store locations hard to reach by network cables.

In addition, IAdea's large partner ecosystem enables cloud-based management via dozens of approved professional management software options. Device hardware features solid-state storage and advanced low-power computing technology, providing higher reliability for large project deployments.

DYNAMIC CONTENT

The device displays a rich blend of video, audio, graphics, and typography through the use of HTML5 and SMIL open content standards. Live data sources such as databases and community-generated content may be integrated in real-time using JavaScript programming. The device further supports the Google Android API and allows users to develop custom advanced applications including interactivity, real-time analytics and rich peripheral programming.

REMOTE MAINTENANCE

The ability to perform content, configuration, application, and even firmware updates over the cloud greatly reduces maintenance cost during the life cycle of large content networks. *

ALSO AVAILABLE:
XMP-2200 HD WIRED AND XMP-2400 HD AV-IN + RS232



XMP-3450 Live Full HD Signage Player

HTML5 Capable Digital Signage Player

The XMP-3450 Live Player integrates external live video with dynamic HTML5 content to create the most relevant and attractive digital signage display. RS-232 port also allows controlling supported professional monitors to turn on/off at scheduled times.

LIVE AUDIO/VIDEO INPUT

The A/V-in port on the XMP-3450 connects to live sources such as a TV tuner or a camcorder via analog composite A/V signal to present as a part of the displayed content.

CONVENIENCE OF THE WIRELESS LAN

The XMP-3450 incorporates the latest wireless LAN technology and effectively reduces installation cost at deployment sites. By incorporating optional 3G/4G access points, the XMP-3450 can further be integrated into the mobile network architecture.

SOLID PERFORMANCE

The XMP-3450 is built using high-performance hardware-based media decoder chip capable of reproducing brilliant video performance up to 1080p. Unlike conventional players built using PC technologies, the video performance of the XMP-3450 is guaranteed by hardware and avoids stuttering typical among software decoders.

MOST SOFTWARE OPTIONS

IAdea pioneered using the W3C SMIL (Synchronized Multimedia Integration Language) technology to establish the industry's first open platform. SMIL devices enjoy the largest number of great supporting software in the industry. This gives you the power to choose the solution that works for your project. IAdea again re-invented the industry by introducing the first HTML5-capable media appliance. Touted by technology leaders as the next greatest platform, HTML5 enables IAdea devices to be easily programmed for almost every imaginable application.

ALSO AVAILABLE:
XMP-3350 FULL HD WIRELESS AND XMP-3250 FULL HD WIRED



tightrope media systems ★

Carousel Server 320

Web Enabled Digital Signage System

Carousel brings a new level of capability, price, and ease of use to the digital signage market. The Carousel Server is a complete package of both hardware and software that can provide up to fifteen separate channels of dynamic digital signage. Content can be uploaded, screens can be created, and Carousel can be programmed from any location with an internet connection.

KEY FEATURES

- Multi-zone display for exciting, active content
- Interfaces with popular event management systems such as Dean Evans and Resource25
- Comes with dozens of pre-defined templates
- Custom graphic design available through Tightrope Creative
- Intelligent scheduling for bulletins and feeds

Carousel

- Add up to fourteen additional channels
- TV Input -- for displaying live video signals (up to 1080i) in a zone or full screen -- now included with every 310
- NVIDIA® Quadro® FX 380 LP for professional graphics handling of transitions, crawls and video
- Windows® 7 Professional
- Built in Player. Includes one channel license
- In case of an emergency, override the system with Alert Messages. Manage these alerts with multiple levels of authorization



Web-based Digital Signage Systems

Voted #1 Digital Signage Solution by Pro AV

Carousel simplifies content creation and delivery. With an intuitive, easy-to-use interface, the web-based platform is designed for simplicity, security and scalability. Use existing Flash®, video and graphics or enter messages directly. Stream video, create crawls, inform viewers with alert bulletins and much more!

No matter how small or how large the organization, Carousel allows multiple users to post videos, create and update messages, and push full screen alerts from any device with a network connection and web browser.

Carousel is perfect for education, hospitality, corporate applications and more!

tightrope media systems ★

Carousel Player 250

Networked Digital Signage Player

The Carousel 250 Player provides unmatched functionality and Digital Signage features. The Network-Ready Player seamlessly integrates with Carousel Server products, including the 310, 410 and Enterprise Server.

DIGITAL SIGNAGE SIMPLIFIED

- Intel Core i3 Processor with integrated Intel HD Graphics 3000 for smooth transitions, crawls and videos
- DisplayPort Output for secure HD connections
- Compact & lightweight, the ultra-quiet player mounts easily behind a display
- Dynamic Rich Content - displays video, RSS feeds, web cams, images and Adobe Flash
- Locally Cached Media - messages continue to play seamlessly during a loss in network connectivity

Carousel

KEY FEATURES

- Network-Ready Digital Signage Solution
- Ships Complete with Carousel Channel License (*Must be used with Carousel Server 310, 410 or Enterprise)
- Web-Based Interface
- Multi-Zone Display
- Plays Adobe Flash, MPEG-2 And Other Video Formats
- High-Definition Output
- Emergency Messaging Capability



tightrope media systems ★

Carousel Solo 250

Stand-Alone Digital Signage Player

Carousel Solo 250 offers a new level of functionality and value for web-based digital signage. A turnkey solution complete with hardware and software, this compact player can be used alone or within a larger digital signage network.

DIGITAL SIGNAGE SIMPLIFIED

- For applications where only a single channel of digital signage is required.
- Intel Core i3 Processor with integrated Intel HD Graphics 3000 for smooth transitions, crawls and videos
- DisplayPort Output for secure HD connections
- Compact and lightweight, the ultra-quiet player mounts easily behind a display
- Dynamic Rich Content - displays video, RSS feeds, web cams, images and Adobe Flash

Carousel

KEY FEATURES

- All-in-One Digital Signage Solution
- Ships Complete with Carousel Software License
- Web-Based Interface
- Multi-Zone Display
- Plays Adobe Flash, MPEG-2 And Other Video Formats
- High-Definition Output
- Emergency Messaging Capability



Watch Tightrope's
Carousel product
in action.

Content Creation

Ensure the message gets noticed.

Pre-Built and Custom Channels

Carousel includes pre-built channels with every system sold that can be customized for any organization. Tightrope Creative can also design a custom channel to ease content creation and ensure branding consistency.

Interactive

From Way-Finding to Interactive Kiosks, Tightrope is experienced at building interactive displays to engage the audience.

Templates

Each zone includes complimentary templates. Simply enter text, upload photos & video, pull in traffic cams, weather, RSS and data feeds. The templates do all of the formatting.

Web-Based

The easy-to-use interface is web-based and allows control of content from anywhere in the world, from a single display to thousands.

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ALMOST NO AUDIO DELAY



NEAR CD SOUND QUALITY



COUPONS FOR YOUR VISIT

Drown out the noise and turn up the game for noisy bars & restaurants.

Pull out a smartphone, pop in a headphone and tune to any television. That's what Audivero allows your customers to do. Any Audivero enabled location your customers visit will have an Audivero Wi-Fi that, once joined, will allow them to tune their Audivero app into any television that has an Audivero badge. It's that simple!

Audivero is a revolutionary new product that allows customers to hear what they want to hear in an establishment. Using Audivero's specialized WiFi and server technology along with mobile devices (Apple mobile devices and Android devices) that customers already own, deliver crisp and clear audio from up to 32 sources and target specials and ads right to their phones.

All the customers have to do is download the free app from either the iTunes store or the Google Play store. Finally, every TV has "The Game" for everybody!

Selling Tips!

For an average subscription cost of \$5.11/ day* your customers get all of the following features:

- **Direct Advertising** - Advertise right to devices using the Audivero App
- **Attract More Fans** - Customers will be more engaged because they can listen to "Their team" even if it is on the obscure TV #28 in the back corner of the dining room.
- **Keep Listening** - Customers can listen to the game even if they aren't watching
- **Usage Metrics** - X device used the app X times within X time period
- **Coupon Management** - Reward your loyal customers with exclusive in-app coupons (which you control)
- **Lower print costs** - Previously printed materials can be sent directly to devices (including menus)
- **Quieter overall environment** - Customers can use headphones to hear what's on TV, the ambient volume level in establishments can be lowered.
- **Larger customer tabs** - If customers are more engaged with what's on TV, they will stay longer. The longer they stay, the more money they spend.
 - **Sell More Beer** - The average cost of domestic a keg of beer is \$100 (standard US 15.5 gal = 1980 fl oz) the cost of an ounce of beer is approximately \$0.05/oz. This means that the cost of a 16 oz beer is around \$0.80. The average selling price for a 16 oz beer is \$2.00 which leaves a profit of \$1.20/beer sold. Approximately 5 extra beers / day to pay for the system.
 - **Sell More Product** - Each system includes 100 ear bud style headphones that can be sold to your customers. Easily order more (100pk / \$150.00). Sell enough ear buds and you can pay for the system every month.
- **Online Store** - You get exclusive access to your own online store where you can easily purchase extra headphones, extra TV Placards and extra table tents.
- **Less Hassle** - you won't ever have to worry about which audio feed you want to play in your establishment. Using the Audivero app, your customers can choose for themselves.
- **Leasing Options** - Lease to own terms (12-60 months).





Elite ELT-2100S pictured above.



ELITE ELT-2100S/2100L

LCD & Plasma Cart/Stand

The AVTEQ Elite is a comprehensive AV cart or stand to furnish both video conferencing and telepresence environments.

ELT-2100S supports a single display up to 80". All steel construction, (15" deep inside) comes standard with 10RU 19" rack mount bracket, 6 Port power module, superior M-Audio speaker set, integrated adjustable camera shelf, and microphone wire access from front. The ELT-2100L supports two displays up to 70" and has all the other features and functions that the 2100S has.

- Elite ELT-2100S supports one display up to 70"
- Elite ELT-2100L supports dual displays up to 70"
- Standard 19" rack mount bracket with 10RU of space, 15" depth
- M-Audio® Speaker module (PSM-200)
- Tempered black glossy glass door
- 48" footprint provides enhanced stability for large dual monitor applications

- Multiple camera mounting positions
- Universal screen mounting system
- Cable management features
- 6 Port surge protector
- Sleek, contemporary design
- 5" casters
- 100% solid steel construction



* FOR 70" OR LARGER CONTACT IAVI SALES STAFF

AVTEQ® Technology Credenza3-V/L

Fixed Furniture Solutions

Our fully customizable 3-bay credenza can house all your equipment and offers a unique integrated screen mounting system that eliminates wall-mounted displays.

This credenza comes with a sliding/rotating equipment rack on one end and two bays with removable/adjustable shelves, or enough room for a mini fridge. The Technology3 Credenza can support a single (103") or dual (80") displays.

- Supports a single display from 60" to 103", dual displays up to 80" or three displays for your telepresence applications*
- Includes sliding, rotating 12RU rack from Lowell™
- Integrated adjustable v/c camera platform
- Integrated universal screen mount system
- 6 Port rack-mounted APC® power strip/surge protector



- Fully customizable interior
- Available in cherry, mahogany, blonde veneer, and laminate or available as a steel frame skeleton with accompanying CAD drawings for customers to match existing millwork
- Open back design for ventilation
- Requires approximately 4-8 week lead time for production

* FOR OVER 80" OR 3 DISPLAY CONFIGURATION CONTACT IAVI SALES STAFF.

AVTEQ® PS-100L-CTR

Fixed Mount

AVTEQ's PS-100L-CTR is designed to mount video conferencing equipment and two flat screens to the wall creating a clean, sophisticated look. The PS-100L situates the codec beneath the displays.

With the CTR shelf, the camera can be positioned anywhere along the vertical range of adjoining screens, thereby optimizing the video conferencing experience by achieving an 'eye to eye' look with the camera.

- Solid, heavy gauge steel construction
- Accommodates dual displays up to 80"
- Durable powder coat finish
- Optimized design for easy installation
- Center camera mount is height adjustable in dual



- screen applications
- Includes universal display mount
- Includes BLW below screen codec shelf and CTR center screen camera shelf

* FOR OVER 80" OR 3 DISPLAY CONFIGURATION CONTACT IAVI SALES STAFF.

AVTEQ® RPS-800S

LCD & Plasma Cart/Stand

The RPS-800S is a mid-level video conferencing cart that combines the small footprint of an entry-level cart with the vast feature-set you'd only expect to get with an executive level cart.

It supports a single LCD or plasma up to 55", includes 9RU of threaded rack rails, comes standard with an integrated adjustable v/c camera platform, and hinged and lockable rear access panels as well as locking front glass door.

- RPS-800S supports one display up to 55"
- 9RU of threaded rack rails
- One interior shelf
- 5" Dual wheel casters, 2 with brake
- Integrated adjustable v/c camera platform
- Hinged and lockable rear access panels
- Integrated universal screen mounting system
- Tempered, tinted locking glass door
- 6 Port surge protector
- 2 Single gang knock outs
- Adjustable handles for ease of movement
- 100% Solid steel construction



AVTEQ® RPS-200

LCD & Plasma Cart/Stand

The all-steel AVTEQ RPS-200 is the most durable and cost-efficient mobile flat-screen stand available on the market. Adjustable-height chromed rolling cart accommodates display from 32" to 55". Also available with leveling feet in place of casters.

- Adjustable mounting bracket for displays from 32" up to 55"
- Adjusts in height from 61" up to 71"
- Integrated universal screen mounting system
- 3" casters, 2 with locks
- 100% Solid steel construction



CREATE DYNAMIC VIDEO WALLS - WITHOUT THE WALL.



LVM3X3U

FEATURES

- Compatible with 40" - 65" displays
- Tool-free Microzone adjustments for perfect display alignment
- Fully integrated cable management
- Multiple accessory options



LVM2X2U



LVM3X2U

Chief's new Fusion® Series freestanding solution makes it possible to construct video walls in prominent locations for temporary digital signage needs, or when wall mounting is not an option. Three configurations are available and can be combined with accessories to create eye-catching video walls up to three displays high and any length.



Installer-Inspired Innovations
800.582.6480 ■ www.chiefmfg.com

ARE YOU A CHIEF CERTIFIED PARTNER?
Register at www.chiefmfg.com/certification

CHIEF® Thinstall Series

Flat Panel Mounting Solutions

Thinstall™ Swing Arm Mounts are engineered to deliver ultra low-profile installations with state-of-the-art functionality for all types of displays. Installer-inspired features make installation safe and easy. Customize your installation with a full line of supporting accessories.



Chief's Thinstall Series Swing Arm Mounts are full-motion wall mounts for LED, LCD and plasma TVs and displays. These sleek, ruggedly-constructed mounts have low 1.5 to 1.8" (38 to 46 mm) profiles, are easy to install and extend up to 25" (635 mm).



FULL EXTENSION

- Arms extend out up to 25" (635 mm) for maximum viewing potential.

ULTRA LOW-PROFILE

- These sleek designs collapse 1.5 to 1.8" (38 to 46 mm) providing an ultra-thin profile.

CONTROLZONE™ HEIGHT ADJUSTMENT

- Adjust the height of your entire configuration post-installation up to 1" (25.4 mm).

CENTERLESS™ LATERAL SHIFT

- Get up to 16" (406.4 mm) of post-installation shift for limitless centering possibilities.

CENTRIS™ LOW-PROFILE FINGERTIP TILT

- Provides up to 15° of fingertip tilt to achieve the perfect viewing angle.

INTEGRATED CABLE MANAGEMENT

- Enclosed, tool-less cable covers and a wide open wall plate make it easy to route power and signal cables.

CHIEF® Chief FUSION® Series

Interactive Projector & Flat Panel Mounts

Chief's new FUSION® series ceiling mounts provide perfect positioning for any display need. Whether one screen or many, your next installation will be precise, fast and easy. A full line of supporting accessories enables customization for any situation.



The single ceiling mount includes continuous tilt ranges with four set locking points that eliminate guesswork when adjusting multiple screens; tool free engagement; and optimization for a wide range of display sizes.

Look to the FUSION video wall ceiling mounts and menu boards to offer perfect TV positioning and flexible adjustments for multiple screens. Features include independent knobs for precise height and plumb micro-adjustments; micro-height and leveling adjustment at all column intersection points; and infinite screen positioning to quickly calibrate each screen for a seamless display.

FUSION ceiling mounts are compatible with traditional 1.5" NPT and Chief's new CPA pin connection ceiling plates and column system.



RackBuilder Delivered

Save time with a new fulfillment program that delivers preassembled rack systems. Configure your rack system at rackbuilder.chiefmfg.com.

▶ Play



scan.me/5mxbz1

CHIEF® AV Racks

For more than 30 years Chief has provided quality products and industry-leading customer service, and their Raxxess® Series of AV Rack Solutions is no exception. Chief's redesigned racks offer strength, flexibility and advanced features that speed up installation and assembly.

Consistent designs mean accessories are compatible with multiple racks, and innovative packaging protects the rack during lay-down loading. We offer a full line of Chief enclosures, racks and accessories for the professional AV market—from music stores and pro audio suppliers to commercial installers.

Freestanding Racks

From minimal skeleton racks to fully enclosed racks with several door options, Chief's freestanding racks are durable and provide easy installation.

- Gangable
- Enclosed
- Skeleton

Wall-Mounted Racks

Mount securely to the wall while resting on a solid steel platform that transfers weight to the floor.

- Sectional
- Pivoting

In-Cabinet Racks

Get easy access to equipment installed in cabinetry or millwork with racks that pull out and rotate up to 90° in either direction.

- Pull-Out
- Rotating
- Heavy-Duty

Furniture

Furniture to house all the electronics needed for boardroom and conference room applications.

- Configurable
- Workstations





Born in the USA

Peerless-AV™ products are proudly manufactured in the USA.

We establish the standards, we use the best materials and production processes, and we control our supply chain. Our engineering, development and manufacturing capabilities are organized into four product divisions to better serve our customers, all serviced by our own Peerless-AV™ sales and marketing team. With Peerless-AV™, you know what you are getting and when you are getting it.



PRG-UNV
Projector Mount



SP746PU
Flat Panel Mount



ST650
Flat Panel Mount



Full-Service Video Wall
Mount Solutions

peerless-av.com

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peerless-AV™

peerless-AV™ SP850-UNLP

Pull-Out Swivel Mount For 32"- 65" Flat Panel Screens Up to 150 lbs



The SP850 Pull-out Pivot Mount combines the best features of a wall mount and a pivot arm. In the closed position, the SP850 acts as a flat or tilting wall mount. At only 2.31" from the wall, its unique wall plate and built-in cable management neatly hide all components and cords. Extended, the SP850's sturdy arm construction smoothly glides the display out 10.68" from the wall and allows the flat panel display to pivot up to 45°. This feature not only enables the display to be positioned for an optimal viewing angle, but it also provides easy access to the back of the display for hassle-free maintenance. The SP850 is also ideal in applications where the display needs to be recessed into the wall, custom framed or aligned into a multi-display wall.

- Built in pivot up to 90° (45° in each direction) for adjustable viewing angles
- Easy pull-out pivot provides quick maintenance access
- Dedicated models include VESA® 100 and 200 x 100mm compliant adapter plate (PLP or LC model adapter plate required for non-VESA displays)
- Universal models adapt to displays with mounting holes up to 729 x 433mm (28.7"W x 17.05"H)
- 2.31" (59mm) deep when retracted, pivot arms extend up to 10.68" (271mm) when extended
- Clean profile design hides wiring & mount within the enclosed wall plate
- InceLok™ tilt provides tilt at 0°, 5° and 10°
- ±1° of roll for horizontal display leveling during installation
- Lock Key™ installation tool secures arms for display installation
- Lock-out screw prevents unwanted extension
- Mounts to 16" wood studs, concrete and cinder block

peerless-AV™ DS-VWT955-2X2

Digital Signage Video Wall Ceiling Mount for 2 x 2 Configurations (for 40" to 55" displays)



Video wall displays no longer need to be limited to just walls and carts. With the Peerless-AV™ DS-VWT955-2X2, a video wall display can now be mounted to a ceiling. The tool-less micro adjustable design provides placement of four displays in a 2 x 2 configuration, neatly aligned on the same plane. The tilting adjustment options of 5, 10, 15 and 20 degrees means you can be assured of the perfect viewing angle for your application. Ideal for department stores, entertainment venues or other large public areas. Compatible with Peerless-AV fixed length and adjustable length columns.

- Ceiling mounted 2 x 2 video wall solution
- Supports mounting hole patterns of VESA® 200 x 200 up to 600 x 400mm.
- Additional patterns supported with adapter plates
- Tilts options of 5°, 10°, 15° and 20°
- Eight points of tool-less micro adjustment provide precise alignment
- Compatible with Peerless-AV standard columns
- Included security hardware deters tampering and loss

peerless-AV™ DSV-W765

Full-Service Video Wall Mount For 40" to 65" Displays



Service access to individual displays in a video wall can be cumbersome, until now. The DS-VW765, a modular mount system allows unlimited display configurations and features an innovative pull-out/prop-open hinge mechanism that provides quick and easy rear of screen access. This unique modular mount system assists in achieving a seamless installation and look with the use of custom wall plate spacers that set into place, drastically reducing installation time without requiring additional tools. With simple installation and easy micro-adjustments, the displays are aligned with precision and held close against the wall for a clean, low-profile appearance.

- TV Size: 40"-65", Max load: 150 lbs
- Modular mount for unlimited video wall display configurations
- Custom wall plate spacers eliminate the guesswork and on-site installation calculations
- Tool-less micro-adjustments at 8 points seamlessly align the displays
- Displays click securely into place against the wall with spring-loaded mechanism
- Displays & mounts sit flush against the wall for a clean side appearance
- Pull-out/prop-open mechanism for quick service access
- Integrated cable management make display-to-display cabling simple
- Included security hardware prevents mount from extending out from the wall
- Adjustable VESA® mounting hole patterns in 100mm increments, starting at 200 x 200mm up to 700 x 400mm, additional patterns supported
- Integrated cable management keeps cables out of the way

ALSO AVAILABLE IN PORTRAIT MODE.

peerless-AV™ DS-VWC655-3X3

Universal 3x3 Video Wall Cart for 46" to 55" Flat Panel Displays



The Peerless-AV™ DS-VWC655-3X3 Portable Digital Signage Video Wall Cart provides a free standing portable 3 x 3 video wall solution for any environment. Durable swivel casters provide easy 360° smooth swivel and roll maneuverability. Tool-less 8-point adjustment offers seamless display alignment along with the strength to hold up to 9 displays measuring 46" to 55". In addition, a secure locking mechanism ensures that the displays stay safe while providing the ability to provide perfect viewing positioning. With strong legs paired with horizontal supports, the video wall cart holds a maximum load of 1000 lbs (454kg).

- Free standing video wall solution for a 3 x 3 display configuration
- Lockable 5" casters enable safe and easy maneuverability over various flooring surfaces
- Displays are height adjustable
- Tool-less micro-adjustments at 8 points seamlessly align the displays
- Cable management through the stand uprights
- Mounting hole patterns of up to 400mm vertically. Additional patterns supported with adapter plates
- Base cover with internal media player shelf, hides wires for a clean appearance
- Converts from a cart to a stand with additional Peerless-AV leg accessory leveler, ACC310

peerless-AV™ KL540-S/KL546-S

Indoor Digital Signage/Kiosk Enclosure (Fits most 40" or 46" Ultra-thin LCD Displays)



Make a statement with Peerless-AV's sleek digital signage kiosk enclosure. Designed to best support 40" (KL540-S) and 46" (KL546-S) ultra-thin LCD displays, this kiosk enclosure is sure to make an impact with its audience. Whether it's advertising, a digital directory, or wayfinding, this solution is an ideal fit for a corporate campus, college/university campus, hospital, retail store, shopping mall and more.

- Designed for 40" or 46" ultra-thin LCD displays to accentuate slim design and large screen real estate (Samsung ME40A, others)
- Supports a wide range of aesthetic options including multiple colors, acrylic trim, vinyl wraps, and more to best match the environment's look and feel or promote a brand strategy
- Hinged top frame offers easy access to the display and other internal components for easy maintenance and enhanced security
- Keyed rear door offers convenient access to a media player for easy maintenance
- Eight points of tool-less adjustment quickly positions the display in the kiosk window for flush alignment
- Minimal assembly is required for a simplified installation
- Base can be free standing or bolted to the floor to increase security
- Other options include cooling fans, speakers, and beveled top frame to best meet client needs

peerless-AV™ DS-VL-H Models

Digital Menu Board Kit for 20" to 65" displays



Designed to provide a great look for an infinite number of display possibilities, the Peerless Digital Menu Board Kit allows for the combination of multiple wall plates and vertical rails that ultimately creates a virtually seamless in-line display appearance at any desired height. A simple 3-step installation saves time and eliminates tedious measurements while assuring the placement of multiple displays is easily adjusted across the horizontal arrangement.

The mount offers flat or tilt viewing options for ideal screen spotting position. Tampering and theft is prevented with included security hardware option. Available Cable Management Accessory assists in finishing a clean look for a truly sleek and clutter-free installation.

- Enables the installation of multiple displays onto one mounting system
- Tilt displays to -5, 0, 5, 10 and 15 degrees
- Horizontal adjustment to create a seamless appearance
- Portrait or landscape orientation
- Includes all necessary mounting hardware
- Integrated security options available

MAG-PRO Universal Mount

Universal Mount with Integrated Coupler for Projectors up to 25 lbs

The MAG-PRO universal projector mount fits most projectors that weigh less than 25 lbs. The integrated coupler attaches to a standard 1.5" NPT and includes a cable routing port. The patented MagnaGuide™ feature reduces installation time by using powerful magnets to easily guide the integrated pipe coupler to the mount. A safety lever locks the two pieces together securely. Radial Glide™ allows up to 6° of smooth tilt adjustment and a simple lock-down screw secures the adjustments. Lock-It™ security hardware is used at critical mounting points for a safe and secure installation. OSHPD approved and UL listed.



- Lock-It™ security hardware and leveling barrel provide strong protection
- Radial Glide™ provides smooth roll, pitch and yaw
- Easy-to-install two-piece design
- Patented MagnaGuide™ reduces installation time and aids in projector alignment (U.S. Patent No. 7,758,001 B2)
- Integrated coupler attaches to standard 1.5" NPT and features cable routing port

FTP Projector Mount Bundle

Fine-Tune Projector Mount with Quick-Locking Cables and CLS Adapter

A slide release and the precision adjustments make the FTP universal fine-tune projector mount a time saver during installation and service calls. The FTP's enhanced fine-tune features allow the installer to adjust pitch, roll and yaw independently and without tools. After aligning the projectors image to the final projection settings, the FTP can be locked in position with a single thumb screw.



The FTP-FCTA-QL bundle includes Quick-Locking Cables and CLS adapter.

- Lock-It™ security hardware and leveling barrel provide strong protection
- Universal mounting legs (four long pre-installed, two short)
- Post-installation leveling barrels
- Mounts to pipe or ceiling structures with included quick installation tool
- Innovative patent-pending mechanism enables smooth finger-tip alignment (no tools required)

SPI-PRO Projector Mount

SpiroLock™ Projector Mount with 1.5" NPT Coupler

The SPI-PRO holds projectors up to 45 lbs and has an integrated 1.5" NPT coupler. The SpiroLock™ torsion-spring on this projector mount allows quick and easy installation.



The bottom piece attaches to the projector, the top piece connects to the ceiling and then the installer simply lifts, turns and pushes the projector into place until the SpiroLock™ snaps it firmly together. Radial Glide™ provides six degrees of omnidirectional pitch.

- Radial Glide™ allows quick and easy, tool-free projector alignment
- Universal mounting legs reach a large variety of projector mounting points
- Easy release to staging position allows projector removal with both hands
- Internal safety device holds projector securely in place during detachment
- Includes ceiling plate and threaded pipe nipple
- Adapts to 1.5" NPT
- Two-piece mount allows separate ceiling and projector installation, then twists and locks together

AM100 Swingout Mount

Low-Profile Ultra-Slim Swingout Mount for Flat-Panels up to 100 lbs

The AM100 is a slim mounting wall plate that provides three options for the swing arm placement, allowing the mount to swing out from the left, right or center, based on the installation requirements.



The swing-out arm extends 30" from the wall and provides 15° of downward tilt to achieve the desired viewing angle from virtually anywhere in a room. The lightweight aluminum mount retracts smoothly and easily to a very thin 1.46" from the wall. To keep power and cables protected when pulling or pushing the display, cable management channels are built into the arm.

- Designed for today's slimline flat-panels
- Universal mounting pattern up to 630 x 526 mm
- Extends 30" from wall
- 15 degrees of tilt
- Collapses to just 1.5" deep
- Low profile, ultra thin swing-out flat-panel mount

AM500 Flat Panel Mount

Articulating Mega Wall Mount for Displays up to 500 lbs

The AM500 is an articulating wall mount for displays up to 500 lbs. The mount holds flat-panel displays up to 82". The positive and negative tilt adjustment allows the mount to be installed level and plumb. The dual articulating arms allow even the heaviest display to be pulled away from the wall for service or alignment.



The mount features a 90 degree rotation which allows the display to be installed in landscape, portrait or any other arbitrary angled orientation. There are three different mounting brackets for different size displays (Only one included with each configuration). Also refer to AM501 and AM502 for more model specific information.

- 500 lb weight capacity securely holds any heavy weight display
- Positive and negative tilt adjustment for a level installation
- 15" extension from the wall for full display access
- Mounting head provides 90° rotation capability to the left and right

LMV Framing System

Video Wall Framing System for Flat-Panels up to 160 lbs

The LMV is a customizable video wall framing system for flat-panels weighing up to 160 lbs with a mounting pattern of 200 x 200 to 600 x 400mm. It features multi-monitor stacking, spring-loaded release, open design, custom spacers, top adjustable mounting brackets and straight scissor-style extension.



- Shared component parts across product line reduces cost and training time and optimizes labor efficiency
- Updated latch design and smaller base frame size provide quick and easy installation
- Laser cut, precision design spacers ensure seamless alignment without need for time consuming adjustments
- Patent pending, top-adjustable mounting brackets ensure alignment and levelness of displays
- Scissor design and compact mounting arms allow for extension in one smooth motion
- Spring-loaded locking mechanism provides quick release
- "Click-It" locking feature confirms display is secure through an audible noise

ECM-D70T Ceiling Mount

Ceiling Mount for Dual Flat-Panels up to 46"

The ECM-D70T ceiling mount fits dual flat-panels up to 50" in either portrait or landscape orientation. It offers dynamic viewing with 360° swivel and 15° of tilt. The mount's ultra-thin design keeps the center of gravity close to the flat-panels for better balance. Integrated cable management keeps the installation clean and organized. Optional brackets are available for attaching mini PCs and digital media players and servers. The ECM-D70T fits a 2" NPT extension pipe.



- Optional brackets for mini PCs and digital media players/servers
- Integrated cable management
- 360° swivel with 2" NPT coupler
- Holds two flat-panel displays up to 46" each in portrait or landscape orientation
- 15° of tilt facilitates strategic placement of the flat-panel

ECM-3763D Ceiling Mount

Back-to-Back Ceiling Mount for Flat-Panels up to 350 lbs

The ECM-3763D suspends two back-to-back displays from the ceiling and adapts to 2" NPT. No adapters are required for mounting so installation is fast and easy. Center support has mounting points for electrical J-box (not included). Each mounting bracket can hold a flat-panel up to 175 lbs.



- Suspends from ceiling with 2" NPT pipe (not included) PP-6 or PP-6A Ceiling adapters
- Mount displays right out of the box - no adapters needed
- Works with optional brackets for mini PCs and digital media player adapters
- Integrated cable management keeps installation clean and organized
- Center support features mounting points to receive J-box for power or A/V (not included)
- Supports two flat-panels back-to-back

ECM-3763Q Ceiling Mount

Quadruple Ceiling Mount for Flat-Panels up to 175 lbs

The ECM-3763Q suspends four flat-panel displays weighing up to 175 lb each from the ceiling in a fixed ring. The mount can be suspended from a 2" NPT pipe and displays mount right out of the box without an adapter. Integrated cable management keeps installation clean and organized. The ECM-3763Q also works with optional brackets for mini PCs and digital media player adapters. Mount displays right out of the box - no adapters needed.



- Total mount weight capacity 700 lbs
- Works with optional brackets for mini PCs and digital media player adapters
- Integrated cable management keeps installation clean and organized
- Includes AST-2446-2 adjustable height ceiling adapter, providing 24-46" of adjustment in 1.25" increments
- Supports four flat-panels in a fixed ring

GB-SEC1B Security Mount

Security Mount for Projectors up to 65 lbs



The pipe-mountable, GB-SEC1B GearBox™ is a lockable universal projector mount and equipment enclosure. This mount fits most projectors up to 65 lbs and includes storage space for A/V equipment right above the mounting area. The cross slot pattern allows almost any projector to mount directly to the lower tray. The slide-in tray provides simple and quick one-person installation.



- Connects to standard 1.5" NPT
- Steel-barrel lock keeps gear secure
- Two inches of lateral shift in either direction
- Over 300 cubic inches of interior space to house cables and A/V equipment
- Slide-in tray for fast, one-person installation
- Cross slot pattern allows almost any projector to mount directly to the lower tray

P Series Tilt Mount

Tilting Low-Profile Mount for Flat-Panels up to 175 lbs (P4263T)



The P4263T is a tilting low-profile mount for flat-panels up to 175 lbs. Typically fits displays ranging from 42" - 63" or with a mounting pattern of 200 x 200 to 800 x 525mm. It offers up to 10° of continuous tilt, a low-profile design, post-mounting leveling adjustment system, and built-in lateral shift for optimizing your installation location.



- Mounting kit includes wood, concrete and steel stud attachment hardware
- Post-installation leveling system
- Built-in lateral shift
- Open design for easy cable and electrical access
- Provides 10 degrees of continuous downward tilt
- Low-profile design

FPS-300 Motorized Slider Mount

Flat-Panel LCD Slider Mount



The FPS-300 Flat-Panel Slider mount provides a simple, stationary or mobile wall mounted unit utilizing a motorized lifting and lowering system to help gently glide the display to the desired height.

A great option for educational use in the classroom or training and information sessions, the flat-panel mount uses steel channels to mount the display over the top of a whiteboard. The mount easily glides the display across the whiteboard and rolls the display into place.

- Received rAve's 2012 Best of InfoComm Award
- Motorized lifting and lowering system with 18" of adjustment
- Includes 8 feet of track
- VESA mounting patterns



scan.me/cj1jct



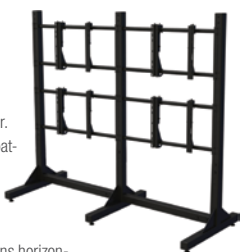
Two-By-Two Video Wall Stand

MVWS-2X2-4655 Modular Stand for Thin Bezel Flat-Panel



This modular two-by-two video wall stand is designed for specific 46" and 55" thin bezel flat-panels.

This mounting system completely breaks down to make shipping, handling, and moving much easier. Fine-tune alignment of each display provided by patent pending top adjustable mounting brackets.



- Includes unique adjustment bolts for assuring stand remains level
- This system accepts additional display sections horizontally to increase array size
- Rapid setup using 1/2-13 bolts
- Quickly and easily remove feet when displays are to be flown from above.
- Patent pending, top-adjustable display mounting brackets ensure displays are aligned and level
- Completely breaks down for easier shipping, handling, and moving

IPM-300 iPad Stand

Adjustable Mobile Stand for iPad™



The IPM-300 is an adjustable mobile stand that features adjustable arms to hold an iPad™, Kindle DX or any 9.7" multi-touchpanel. Swivel with 360° rotation allows users to switch between portrait and landscape orientation. The iPad mount may also be permanently mounted to a desk, table top or under a cabinet.



- Adjustable tilt for the perfect viewing angle
- May be permanently mounted to a desk
- Rotates 360°
- Easy to attach and detach the device
- Free standing reversible iPad™ stand

Multi-Monitor Mount

MM-BC286 2 Triple Curved Mounts Bow on 28" Tube with Clamp Base



This configuration includes two, triple monitor curved bow arms and a 28" single pole with table clamp base for multi-monitor mounts. The table clamp is typically used for temporary installations or for surfaces that do not allow any other option for mount installation. Each mounting head provides 90° of omni-directional movement. Included set screws allow the mounting bow to be positioned anywhere along the pole.



- Set screws allow the mount to be positioned anywhere along the pole
- Perfect fit on almost every surface
- Key hole mounting slots for faster installations
- Mounting head provides 90° of omni-directional movement
- Includes MM-CP28



Custom Mounts

Premier Mounts experienced custom-design team has all the expertise and resources you need:

- Full design capabilities
- Extensive 3D and 2D visualization tools
- Technical experts to advise on product design, installation, packaging, and safety requirements/certification
- Collaborative development process geared toward realizing customer goals as well as bringing new ideas to the table
- Detailed documentation from concept through finished goods
- Extensive library of previous projects to pull from to reduce time/expense of new projects
- Wide array of base and mass-market projects to pull from and reduce customizing needs
- Experienced team of in-house production specialists and rapid production equipment
- Asia based production resources to lower cost of large runs
- Worldwide logistical resources to facilitate distribution

Designing your custom mounts is an easy and smooth process. Premier Mounts will:

- Discuss your specific needs, define a product and review initial sketches and specs.
- Outline estimated costs and work with your budget.
- Zero in on final specs and authorize manufacturing based on your reviews and input.

Once manufacturing and product testing are complete, you will receive your custom shipment complete with installation and training.



3x3 Mobile Video Wall Cart

MVWC-3X3

The MVWC-3X3 is a mobile cart with a nine screen video wall configuration. The cart accommodates displays 46" and 55" and produces a seamless video display with fine-tune adjustment brackets. The cart has effortless assembly, set up and ready for displays in 30 minutes or less. The 3x3 array also splits down the middle to easily ship, handle and transport the product. A solid bottom skirt and tray stores and protects A/V or IT equipment. Heavy-duty casters allow for swift maneuvering, providing precise placement even in the most congested of areas.



- Easy mobility with heavy-duty designed casters to support equipment weight for swift maneuvering
- Stable base provides solid support for the configuration as well as equipment storage and protection
- Accommodates nine 46" or 55" displays for a 3x3 video wall display
- Fine-tune adjustment brackets ensure a seamless video wall display
- Mounting brackets split in half for easy shipping, handling & transporting for setup

Security Cameras

IC REALTIME ICR-100X Dome Camera 10X Day & Night Mini PTZ Color Camera

The ICR-100X is a 500TVL color PTZ dome camera that integrates a weatherproof housing, 360° high-speed pan and tilt base, and 10x optical zoom lens. This is a Mini High Speed dome that will out perform any dome that you have seen before. The ICR-100X has DSS (Digital Slow Shutter) which produces unparalleled low light viewing. It is vandal proof as well as fully weather proof and can be used indoors/outdoors. The unique construction enables it to be surface, flush or wall mounted.



- 1/4" Sony Color CCD with 410K(NTSC) and 470K(PAL) pixels
- Auto focus 10X optical and 10X digital zoom
- Day & night with IR Cut Filter and DSS
- 360° continuous rotation
- Clear image of 500TV lines (B/W: 570TV lines)
- Noiseless low light image with SDNR
- Excellent Impact-Resistant and Rain/Wind-Proof Design
- 8 group tours, 8 patterns (Total 480 seconds)
- Auto flip function, Auto scan, Privacy zone and Alarm on action

IC REALTIME ICR-150 Bullet Camera Weatherproof Color IR Bullet Camera

This is ICR's most versatile camera. It can be used in almost any application, indoor or outdoor. It is IP55 and fully weather and crush resistant. It possesses the latest in IR (infra-red) technology, with blue long range IRs capable of seeing in 0 lux up to 60 feet.



- 1/3" Sony Color CCD
- 3.6mm fixed lens
- 480 TV Lines
- Built-in Weatherproof Audio Microphone
- IP55 Weatherproof Standard
- Water, Dust and Crush Resistant Glass Coating
- Long range IR LED Automatically Illuminates in dark
- Top or Bottom Mount
- 1.2V 1Amp Power Transformer included

IC REALTIME EL-8000 Bullet Camera Super Night Vision Outdoor Camera

The new, feature-rich EL8000 brings more than cutting-edge style. It also brings you the power of sWDR with an integrated Active Infrared system. With the built-in 30X (f3.3~99mm) optical zoom lens and 10X digital zoom function, the camera provides 300X of zoom capability. Users can utilize the RS-485 interface remotely to manipulate the zoom as well as all of the camera's internal functions via the DVR.



- Digital Zoom Camera Module (Optical 30x plus Digital 10x)
- High performance 1/4" Sony Super HAD CCD
- High resolution of 520 TVL at Day / 570 TVL at Night
- IR Sensitive Mechanical Day/Night filter System - built-in (ICR)
- Greatly Enhanced Sensitivity of 0.0007 Lux at F1.6
- DSS with Sens-up (2X - 128X)
- Dynamic Noise Reduction (DNR)
- 6 x Active SS (Spread Spectrum) IRs for 150ft Illumination
- 30X Optical Auto Focus Zoom (3.3mm ~ 99mm)

IC REALTIME MC-1 Mobile HD Camera High Resolution Rugged Mobile Camera

This is ICR's most versatile camera specially designed for Mobile DVR applications. It can be used in almost any mobile applications, indoors or outdoors. It is IP66 and fully weather and crush resistant, and it possesses the latest in IR (infra-red) technology, with blue long range IRs capable of seeing in 0 lux up to 50 feet. It has a built in audio microphone and an easy top or bottom mount. The ICR-MC1 comes with a SONY 1/3 inch Super HAD high resolution sensor that provides 520 TVL at day & 540 TVL at night. It comes with a 3.6mm (optional 4mm, 8mm, 12mm) fixed lens.



- 1/3" Super Sensitive Color CCD
- Built-in Microphone
- Rugged Diecast Aluminum Body
- Entirely prevents vibration from vehicle and road
- High Resolution of 520 TVL (Color at Day) and 540 TVL (B/W at Night)

IC REALTIME EL-700 Box CCD Camera High Resolution Day/Night CCD Camera

The EL-700 is a 540TVL day/night CCD box camera. It has a 3 layer IR filter resulting in true color reproduction and improved picture quality overall. The EL-700 incorporates an easy to use OSD menu (on screen display) to adjust advanced camera settings to different applications. This makes the initial setup quick and easy. The EL-700 can see full color in 0.0002 Lux (Sens-up) and can be paired with any vari-focal lens.



- 1/3" SSNR II Sony Super HAD CCD
- CS Mount Lens Capable
- Highly enhanced resolution of 540TVL (Day) & 570TVL (Night)
- 0.3 Lux / F1.2 (50IRE, AGC High, DNR High) / 0.0002 Lux (Sens-up)
- Wide range of Automatic White Balance (1,800° K~ 10,500°)
- Dual switching power (w/Auto Line-lock) DC12V/AC24V
- 3 Layer IR Filter

IC REALTIME EL-400PIXIM Dome Camera Day/Night PIXIM WDR HD Dome Camera

The EL-400PIXIM dome provides a number of technical improvements in picture quality for viewing areas of extreme dynamic lighting conditions. It is powered by Pixim's Ultra Dynamic Pixel system. This PIXIM technology overcomes an over-exposure problem against strong back-light situations. As each pixel acts as a camera, the picture taken by one pixel does not affect the picture quality captured by other pixels. Based on this technology, the EL-400PIXIM delivers a very high quality, high resolution and very accurate picture.



- High performance 1/3" Pixim WDR digital imaging
- 3.3-12mm Aspherical Extra-Low Dispersion Glass Vari-focal Lens
- High resolution of 540 TVL at Day / 560 TVL Night
- Greatly enhanced Sensitivity of 0.03 Lux at F1.2
- Super Wide Dynamic Range (SWDR)
- Dual-voltage power supply (with auto line-lock) DC12V or AC24V
- 3 layers of IR filter
- Mechanical IR filter eliminates color interference in the night

DVRs



Max Series DVRs Ranges from 4 - 16 Channel Models

IC Realtime's MAX series of DVRs come in a range of 4, 8 and 16 channel platforms. They are designed to provide an economical solution without sacrificing operational and recording quality standards.

The MAX Series DVR uses H.264E (Enhanced H.264) compression technology based on the embedded high speed microprocessors and embedded Linux operation system. This compression allows for clean viewing on the Internet over narrow bandwidth and dramatically increases storage space. This digital video recorder contains advanced web access, system integration and synchronized audio and video recording features that are suitable for various types of home and professional installations: stores, warehouses, homes, government agencies, education facilities, etc.

Model #: MAX4	4 Channels / 120 FPS
Model #: MAX8	8 Channels / 240 FPS
Model #: MAX16	16 Channels / 480 FPS

Flex Series DVRs Ranges from 4 - 16 Channel Models

The ICR Flex Series DVRs come in 4, 8, 16, 32 channel platforms. With H264 compression and a design build that includes the dual-core CPU, ultra-fast video processors and 1000M Network card, image recording and transmission over the internet is seamless, fast, efficient and stable.

Incorporating a "user friendly", "help assisted" graphic user interface (GUI), configurable through Mouse, IR Remote Control, Front Panel or over a network, the Flex DVRs are engineered for ease of installation, maintenance and general use. The Flex DVRs record at 30 FPS D1 (NTSC) with synchronised audio recording. These systems provide full D1 resolution (704 x 480) recording video images that are visually "Crisp & Clear" and deliver enhanced levels of quality for precise data review and evidential data submission.

Model #: DVRFLEX4E	4 Channel / 120 FPS
Model #: DVRFLEX8E	8 Channel / 240 FPS
Model #: DVRFLEX16E	16 Channel / 480 FPS
Model #: DVRFLEX32E	32 Channel / 960 FPS

Elite Series DVRs Ranges from 4 - 32 Channel Models

The New Elite DVR series (4/8/16/32 Channel) provides realtime recording at full 960H resolution, plus synchronized audio at every channel. The Elite series DVR uses H.264E (Enhanced H.264) compression technology based on the embedded high speed microprocessors and embedded Linux operation system. This compression allows for clean viewing on the Internet, over narrow bandwidth and dramatically increases storage space.

The ELITE DVR records at 30 FPS 960H (NTSC) with synchronized audio recording. These systems provide full 960H resolution recording video images that are visually "Crisp & Clear" and deliver enhanced levels of quality for precise data review and evidential data submission.

Model #: DVR-Flex-4E	4 Channel / 120 FPS
Model #: DVR-Flex-8E	8 Channel / 240 FPS
Model #: DVR-Flex-16E	16 Channel / 480 FPS
Model #: DVR-Flex-32E	16 Channel / 480 FPS

IC REALTIME App

IC Realtime ICRSS Pro

Access and control IC Realtime DVR cameras/IP Cameras directly from iPhone, iPad or Android device. Watch and listen to live surveillance video streams - quickly and simply.

- Stream live video directly from security devices
- Remain secured with username/password authentication
- Support of 32-channel DVR
- Supports multi-window view (up to 16 on iPad)
- Supports live audio & two-way audio
- Supports bidirectional talk
- Supports multiple DVRs and control over PTZ cameras
- Take snapshots of live streaming video
- Supports multi-channel playback, D1 Extra stream live view, MJPEG live view



An Easy Solution for Video Conferencing

LG's premium Video Conferencing Systems break away from the mold of complicated interactive communications to deliver a total solution offering. Everything is integrated into a single system. From a compact design to a full complement of features and technologies, the LG VCS combines HD video with a high quality audio system to deliver a vivid conferencing system like no other.

The LG Video Conferencing System is geared towards commercial applications and can be applied to a variety of verticals.



Focusing on the needs of the customer, the LG VCS provides an intuitive interface as well as easy to install hardware. Simply plug and play and you'll be up and running in no time. Its broad compatibility with external media devices and software applications also enables users to connect different types of displays such as televisions, desktop monitors, and projectors. IP technologies work together to optimize the video conferencing environment to transmit video and audio that is not only clear and sharp, but also secure.

Offices save time and travel costs. Multiple locations can hold conference meetings while sharing and reviewing presentations and documents.

Schools inspire and engage. Students can be a part of in-class field trips without stepping out of the classroom and special guest educators can present multimedia content with their lessons.

Government secured conferencing. Technologies such as H.235 (AES) encryption, TLS/SRTP, and IEEE 802.1x support provides a high level of security for conferencing sessions that require protected connections between parties.

LG RVF1000 Video Conference System

Bring the Business World Closer Together

- Easy to Install, Portable In-Room Video Conferencing
- IP-based 1-to-1 Video Conferencing System
- H.323, SIP Communications
- HD Camera, Codec, RCU configuration
- 1280 x 720p, 30fps HD camera
- H.263, H.264(AVC) video standard
- G.711 / 2 & G.728 / 9 audio standard
- Content sharing with single streaming
- Dynamic bandwidth allocation
- Lost packet recovery
- High quality carrying case (included)



LG V5500 Multi Video Conference System

Upgrade with Multipoint Video Conference System

Content Sharing: Dual Stream

The Content Sharing feature with dual streaming allows you to synchronize people and content screen simultaneously with far side. Content sharing feature during streaming increases communication and productivity.

Low Bandwidth Consumption

V5500/V5000 needs only half of the bandwidth required in other video conference systems. V5500/V5000 delivers high quality video/sounds with low bandwidth. Low bandwidth enables customers to minimize maintenance costs.

Silent Camera Movement

Silent camera movement at below 35 dB. Cameras of V5500/V5000 move smoothly and quietly, not disturbing business communications.

All-Integrated Remote Control

One Remote Control can access V5500/V5000 and LG TV simultaneously for easy use and for increased synergy effects between LG products.



CONTROL YOUR MESSAGE

with your iPhone® or iPad®



Kramer ProScale™ digital scaler/switchers are the perfect combination of performance and value to be at the heart of any high quality worship AV system. Now, you can control our scaler/switchers with an app developed to be run from an iPhone® or iPad®.



For more information on Kramer Products please visit our website at www.kramerus.com or call us at 1-888-275-6311.

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iPhone and iPad is a trademark of Apple®, Inc.



VP-728

9-Input ProScale™ Presentation Scaler/Switcher



The VP-728 is a 9-input scaler/switcher for analog and digital video, unbalanced stereo, and S/PDIF audio signals. It scales any video signal composite, S-Video (Y/C), component video (YUV), HDMI, computer graphics video and JPEG files up or down to a selectable graphics or HDTV output resolution via HDMI or 15-pin HD outputs. It provides glitch-free switching between sources through FTB™ (fade-thru-black) switching technology.

- HQV® Video Processing
- Fade-Thru-Black Switching
- Picture-in-Picture / Picture-and-Picture
- Universal Video Inputs – Each on 3 RCAs
- HDTV Output – Up to 1080p
- Computer Output – Up to 1920 x 1200
- Audio Inputs/Outputs – 4 (Stereo or S/PDIF)
- Audio Delay – 0–340msec
- Embeds & De-embeds HDMI Audio
- Control – RS-232 & IR



VM-2Hx1

1:2 HDMI Distribution Amplifier



The VM-2Hx1 is a distribution amplifier for HDMI signals. The unit reclocks and equalizes the signal and distributes it to two identical outputs.

- Max. Data Rate - 2.25 Gbps
- HDTV Compatible
- HDCP Compliant
- HDMI Support - HDMI (V.1.4 with Deep Color, x.v.Color™, Lip Sync, CEC)
- 3D Pass-Through
- I-EDIDPro™ Kramer Intelligent EDID Processing™ - Intelligent EDID handling & processing algorithm ensures Plug and Play operation for HDMI systems
- Kramer Equalization & re-Klocking™ Technology - Rebuilds the digital signal integrity to travel longer distances
- Active Output LED
- Compact DigiTOOLS® - 3 units can be rack mounted side-by-side in a 1U rack space with the optional RK-3T rack adapter



PT-572+

HDMI over Twisted Pair Receiver



The PT-572+ is a DGKat™ twisted pair receiver for HDMI signals. The PT-571 converts an HDMI signal to a single twisted pair signal and the PT-572+ converts the twisted pair signal back to an HDMI signal. DGKat™ Signal Integration is Kramer's unique technology for converting TMDS as well as control and communication to signals that run over twisted pair cables; we strongly recommend using Kramer DGKat™ cables designed specifically for optimum performance.

- Max. Data Rate - 1.65 Gbps
- HDTV Compatible
- HDCP Compliant
- HDMI Support - HDMI (V.1.4 with 3D, Deep Color, x.v.Color™, HDMI Uncompressed Audio Channels, Dolby TrueHD, DTS-HD)
- 3D Pass-Through
- System Range - Up to 90m (295 ft) at 1080i, or up to 30m (98ft) at 1080p on shielded BC-DGKat524 cable. Up to 90m (295 ft) at 1080i, or up to 70m (230ft) at 1080p on shielded BC-DGKat623 cable. Up to 100m (330ft) at 1080i or up to 90m (295 ft) at 1080p on shielded BC-DGKat7a23 cable
- EDID PassThru - Passes EDID signals between the source and display
- Status LED - Lights red when receiving power only, orange when output and power are attached, and yellow when both an active input and output are attached
- Power Connect™ System - A single connection to the transmitter or the receiver powers the system when the devices are within 270ft (90m) of each other
- Ultra-Compact Pico TOOLS



TP-582R

1:2 HDMI + Bidirectional RS-232, Ethernet & IR over Twisted Pair Receiver



The TP-582R is a high-quality twisted pair receiver for HDMI, Ethernet 100BaseT, bidirectional RS-232 and IR signals. The TP-582T selects one of two HDMI inputs, and converts it with the Ethernet 100BaseT, RS-232 and IR input signals to a twisted pair signal. The TP-582R converts the twisted pair signal back to Ethernet 100BaseT, RS-232, IR and two HDMI outputs, and de-embeds the audio to S/PDIF and TOSLINK® audio outputs.

- Max. Data Rate - 2.25 Gbps
- HDBaseT Technology
- HDTV Compatible
- HDCP Compliance
- HDMI Support - HDMI (V.1.4 with Deep Color, x.v.Color™, Lip Sync, HDMI Uncompressed Audio Channels, Dolby TrueHD, DTS-HD, CEC).
- 3D Pass-Through
- EDID PassThru - Passes EDID signals between the source and display
- Bidirectional RS-232 Interface - Commands and data can flow in both directions via the RS-232 interface, allowing status requests and control of the destination unit
- Ethernet Interface - Passes 100BaseT
- System Range - Up to 100m (330ft)
- Indicators - Status LEDs for input selection, output, link and power
- Compact MegaTOOLS® - 2 units can be rack mounted side-by-side in a 1U rack space with the optional RK-T2B universal rack adapter

IS-SPX-1000 Inspired Signage XPress Player

Ask us
how to get a
free 30-day trial of
the Inspired XPress
software. Create and
preview content
before you buy!



Inspired XPress is tailored for organizations that desire to manage all aspects of their digital signage including content creation. Inspired XPress features a simple, intuitive software interface that allows staff to quickly create templates and content, and then publish content to SPX-1000 players which are small enough to mount behind any display. Content design is fluid, similar to a web page.



Ideal for digital signage applications where the player must be mounted behind the display or in a confined space like a kiosk or video wall, Inspired XPress has the power to deliver dynamic information to customers of retailers, hotels, banks, event venues and other public spaces in multiple languages.

- **Flexible Data Integration** - Inspired XPress supports RSS Feeds for News, Weather, Sports or any other data that can be obtained via a RSS Feed for up-to-the minute information
- **Supports Wide Variety of Graphic Types** - The design aspect of the software tool allows use of content already developed such as JPEG, PNG, GIF, and SVG for still image format and MPEG-2, MPEG-4, H.264, WMV 9 for SD motion video as well as importation of PowerPoint presentations
- **Multiscreen** - Create a multiscreen signage wall by time synchronizing multiple SPX-1000s and creating a project that spans multiple displays (requires one signage player per display)
- **Interactivity** - Use the signage player with a touch screen to create interactive displays
- **View Content Being Played** - From the SPX-1000 embedded web server an administrator can take a snapshot showing exactly what is playing on the connected display for status or reporting purposes
- **HDMI and VGA Outputs** - The SPX-1000 features 2 video output connections, one digital and one analog. Both outputs can be active at the same time, allowing the unit to feed two displays the same content simultaneously
- **Serial Control** - Use the serial port on the SPX-1000 to control the signage display

Enova®

The Enova DVX All-In-One Presentation Switchers and Enova DGX 16/32 Digital Media Switchers combine all of the components needed to control/automate any environment into a simple, flexible, comprehensive solution including control, video switching, transcoding and scaling, and local and remote distribution - all in a single, compact enclosure.

In addition to these capabilities available on either solution, the DVX offers room-level capabilities such as multi-format local inputs, audio mixing and amplification in the same enclosure.

Enova® DGX 8 Enclosure

AVS-ENOVADGX8-ENC

- **HDMI/HD/CP Switching with Simplicity of Analog** - End-to-end distribution of HDMI/HD/CP without interruption or key constraints using InstaGate Pro Technology
- **AV and Control over Twisted Pair** - Send audio, video, bi-directional control and Ethernet up to 100m over one standard twisted pair cable
- **Embedded NetLinX Controller** - Allows any connected device to be managed, monitored or controlled



- **Integrated Ethernet Switch** - Pass Ethernet or stream IP video through the attached DXLink Transmitter or Receiver
- **Analog to Digital Video Conversion with Scaled Outputs** - Converts any source signal to digital and uses SmartScale Technology to automatically output video that is perfectly scaled for each connected display



Television Distribution System

Digital Video Broadcasting over Ethernet

The AMX Television Distribution System is a line of Digital TV distribution products designed to transmit digital TV content over Ethernet using a multicast enabled LAN as opposed to a separate dedicated coaxial cable for an easy-to-implement digital TV solution. The AMX DTV Transmitters send a complete transport stream (MPEG-2) which can include multiple individual channels of live programming to an AMX DTV Receiver located at the large format display. When used with an AMX NetLinX Controller, the AMX Television Distribution System can also send control information over the Ethernet network allowing the ability to centrally manage the displays such as powering them on and off.



- Allows control, power and digital TV over one twisted pair cable, eliminating the need for coaxial cable runs and allowing the use of existing Ethernet infrastructure
- IR and Serial control at the receiver location allows for NetLinX control of the display (channel, volume and power on/off) and a handheld IR remote can be used to access the Electronic Programming Guide and change channels
- Includes administrative software which allows for selection of which incoming channels are broadcast out to the AMX DTV Receivers at the displays. The DTV-TX01-DVB-T and DTV-TX02-DVB-S Transmitters contain two tuners supporting two streams of content or up to 8 selected channels per tuner. The DTV-TX03-US Transmitter supports one stream or up to 8 selected channels



AMX MXT-700 7" Modero X® Series Tabletop Touch Panel

The Modero X Series is the most elegant family of interfaces designed specifically for dedicated room control. This new generation of touch panels is built for usability offering edge-to-edge capacitive touch glass with multi-touch capabilities.

It features advanced technology empowering users to operate AV equipment seamlessly, while providing the ultimate in audio and video quality. The distinctive appearance will complement even the most sophisticated meeting facilities and homes.

- **Latest Communication Technologies** - Supports Near Field Communication (NFC) - short-range wireless technologies that deliver peer-to-peer communication by 'sharing, pairing and transaction' between RF devices like exchanging data/identities
- **Enhanced Usability** - External phone connections via Bluetooth or USB and HD video streaming
- **Graphic Leaps & Bounds** - The Modero X Series features intuitive UI functionality: gestures, swipes, dynamic reordering & enhanced animation



NI-4100 NetLinX®

Integrated Controller

The NI-4100 provides versatility with the ability to integrate the largest number of devices in the NI Series of Master Controllers, including projectors, lighting, DVD and Blu-ray players, thermostats and other electronic equipment. In these technology-driven environments, this solution allows for the future addition of more devices and control capabilities. With a perfect mix of compatible formats, the NI-4100 offers flexibility and customization for businesses experiencing rapid growth and for homes that demand seamless integration of technology and design. The NI-4100 provides higher performance with a faster processor, 64MB of onboard RAM and Duet-compatibility.



- 7 Configurable RS-232 / RS-422 / RS-485 Serial ports
- 8 Relays, 8 IR / Serial ports & 8 Digital I/O ports
- 3 Communication Networks: AxLink, ICSNet and Ethernet (TCP/IP)
- 4 NetLinX Control Card Expansion slots that support all NX control cards
- 404 MIPS processor speed
- 64 MB RAM or 256 MB RAM
- 2 GB CompactFlash (upgradeable to 4 GB) and 1 MB Non-Volatile Memory
- AMX Device Discovery enabled

AMX Stereo Presentation Switcher

AVS-SL-PR-0401-0601

The AVS-SL-PR-0401-0601 is a presentation switcher that features a total of 10 inputs and a programmable serial output for controlling projectors, plasma and LCD displays.

There are 4 wide-band computer inputs on HD-15 connectors and 6 S-Video inputs, each of which can be either composite or YC. Ideal for presentation and conference rooms, AV Rental Companies or any environment where a number of mixed source types need to be displayed.



FEATURES

- Inputs: 10
- Outputs: 1
- Video Type/Connector Style: 4 RGBHV, 6 S-Video
- Bandwidth: 350 MHz
- Stereo Audio
- Front Control Panel
- Programmable control of a display or projector which the switcher is feeding



Encore Presentation Switcher

Modular, Scalable Presentation Switcher

The Encore Presentation Switcher is the most advanced video processing and presentation control system on the market today. The system provides source selection, automatic source acquisition and configuration, advanced windowing features, seamless switching, video effects and integrated control for professional video presentations. Encore's modular, scalable architecture allows the system to support a wide variety of show configurations. The system can efficiently support from 1-32 screens with any combination of independent display or seamless wide-screen display elements.



The basic Encore configuration supports six independent picture-in-picture (PiP) or key layers, or three transitioning PiP images. It fully supports seamless transition effects, Z-order control, window borders, drop shadows and a variety of keying effects. Each input board on the Encore provides two independent scaler channels with universal inputs that handle both analog and digital video sources.

The unit features 1:1 pixel sampling, motion adaptive de-interlacing for both standard and high definition sources, 3:2 and 2:2 pull down detection, low video delay, aspect ratio correction, real-time window manipulation. The Encore is an excellent solution for large blended widescreen applications.

- Supports up to 12 independent windows or 6 windows with seamless transitions
- (2) Native high resolution background channels provide background video with seamless transition effects
- Athena proprietary high-performance scaling
- Low video delay - less than 3 input fields
- Z-order control (priority layers) for overlapping PiP or key images
- Each mixer layer is dynamically re-assignable as a mixing (transitioning) PiP, or as two individual (SPLIT) non-transitioning PiP or key images
- Still frame/frame grab of background and downstream key sources
- Complete look-ahead preview
- On-screen display (preview monitor) of layer information and status
- Supports blended widescreen projection
- Output synchronization: free-run or vertically locked to NTSC/PAL blackburst
- Edge blending
- 3G/HD/SD SDI output



ScreenPRO-II HD with EOC

Multi-Layer Video Display System

ScreenPRO-II uses four image layers (unscaled background, up to two scaled PiPs or keys, and an unscaled downstream key) to produce sophisticated effects, including live transitioning backgrounds, transitioning PiP windows, wipes, dissolves and keys. An internal 8x2 analog video router provides universal analog sources to each scaler channel. Barco's ScreenPRO-II features a low video processing delay of three input fields maximum.



With the EOC, the ScreenPRO-II can use the DVI background channels as inputs to the scaler channels, adds HD-SDI and interlaced output for recording, and can have storage for 100 logo stills.

- Transitioning PiP or key on a transitioning background
- Native high resolution background channels independent of the PiP/key processing channels
- Numerous mix and wipe effects
- Video processing
- Low video delay - less than 3 input fields
- Programmable matte
- Z-order control (priority layers) for overlapping PiPs or keys
- Mixer dynamically re-assignable as a mixing (transitioning) PiP or as two individual (split) non-transitioning PiPs or keys
- Capture and storage of two LOGO images for use as full-screen image or downstream key source
- Look-ahead preview
- Output synchronization: free-run or vertically locked to NTSC/PAL blackburst, CSync or HD tri-level sync
- Architecture supports future addition of optional output modules (for example, a recordable output)



DCS-100 & DCS-200

Dual-channel True Seamless Switchers

Both DCS solutions are dual-channel scaling switchers designed to provide true seamless switching between different input sources and formats, while maintaining superb image quality at an affordable price. They have been designed for straightforward and simple operations, which makes them ideal seamless switchers for live events, the corporate world, houses of worship, education and more. Building on the quality and economy of the DCS-100, the DCS-200 adds an independent and highly flexible preview output to the system.



- HDCP Compliant
- Up to WUXGA Compatible
- Includes Output Preview (DCS-200 only)



ImagePRO-II

All-in-One Video Scaler, Scan Converter and Switcher

ImagePRO-II is an advanced high performance all-in-one video scaler, scan converter, switcher and transcoder converting any input signal format to any output format. ImagePRO-II supports Universal Analog, DVI single and dual link, HDMI, DisplayPort and SD/HD/3G SDI signal formats.



Loop-through outputs are provided for the Analog, DVI and SDI input and genlock signals. With features like HDCP and EDID management, USB back up and restore, multiple video effects and native support for all the latest computer formats, ImagePRO-II is the most advanced and flexible signal processor in the rental and staging industry making it the best suitable solution for any live event.

Incorporating the 5th generation of the Athena scaler - Barco's custom-designed image processing technology, ImagePRO-II supports higher resolutions, higher frame rates, higher quality de-interlacing with advanced Motion Adaptive processing, faster source acquisition, better color depth and native support for all the latest computer formats. As formats and interface requirements frequently change, the Athena scaler is built to be adaptable, providing superior signal clarity while maintaining a low processing latency of only one frame.

INPUTS/OUTPUTS

- Dual-link DVI/HD/SDI I/O
- 3Gbit HD-SDI I/O
- HDMI/HD/SDI I/O
- DisplayPort/HD/SDI I/O
- Universal analog I/O
- Loop-through on DVI, SDI & analog inputs

USER INTERFACE

- ImagePRO-3G front panel control
- Web browser & tablet remote control
- Encore suite of controllers
- LED setup and configuration

PROCESSING

- 12-bit processing
- Resolution up to WQXGA (2560 x 1600)
- Frame rate up to 120 Hz for 1080p
- System configuration and restore via USB



FSN Series Multi-Format Switchers

3G-Ready Production and Presentation Switcher

Barco's FSN series is a high-resolution 3G ready switcher that combines advanced multi-format production and presentation switching in one highly integrated unit. The FSN integrates input conversion, multi-viewing, digital video effects and output conversion into a single 6 RU chassis.



By seamlessly integrating multiple video and computer graphics formats on a common platform, the FSN series provides a streamlined package that's modular, easy to operate, and easy on your budget. The FSN allows control of two full mixer-effect (M/E) busses from its control panel as well as the program mixer. Additional auxiliary output cards can be installed for up to 16 AUX outputs, 8 additional mixers, or multi-format outputs and blending.

- Integrated 16-channel multiviewer
- Four keyers and DSK
- 2.5 M/E control with a compact console
- Advanced memory section with "Enables"
- 3G ready
- Less than 3 lines delay for native sources
- Control panel with production switcher layout
- Hot-swappable active cards and fan tray
- Multiscreen and widescreen support
- Internal widescreen blending support
- Seamless AUX switching
- FSN-1400 dual redundant power supplies



MatrixPRO 8 X 8 DVI

8x8 DVI router matrix switcher

The MatrixPRO 8x8 DVI router switches any of the eight DVI inputs to any or all of the outputs. Each channel can be programmed with unique EDID information based on the system requirements. This information is also available to external sources, even when the unit is turned off. Each input is re-clocked as it passes through the router, maintaining the DVI signal strength and each output channel can also display an internally generated test pattern. The MatrixPRO 8x8 DVI router accepts inputs up to 2048 x 1080 (including all HD) resolutions.



The unit is controlled from the built-in front panel, the MatrixPRO remote panels, the MatrixPRO software and the Encore and ScreenPRO-II controllers. The front panel includes an easy to read VFD display and a knob for simple navigation of the menus.

- Programmable EDID per channel
- Built-in test pattern generator
- All inputs re-clocked to maintain signal strength
- Green light positive signal indicator per input channel

Isys® 8.4" Wi-Fi Touch Screen

Digital Video Broadcasting over Ethernet

Sleek, rugged, and lightweight, the Isys TPMC-8X-GA from Crestron® is brilliantly designed to provide a powerful mobile control solution that's easy to hold and intuitive to use. This stylish Wi-Fi touch screen offers enhanced wireless performance, onboard multimedia and Web browsing, high-performance H.264 video, Rava™ SIP Intercom, and advanced Core 3 UI™ touch screen graphics. Its brilliant 8.4" SVGA display and high-powered speakers afford an amazing personal media experience on top of its astounding custom control capabilities.

A Crestron touch screen offers an ideal user-interface for controlling all the technology in the home, boardroom, classroom, courtroom, or command center. Touch screens do away with piles of remote controls, cluttered wall switches, and cryptic computer screens, simplifying and enhancing the way technology is used. Crestron touch screens are fully-customizable for controlling



home theater, multimedia presentation, audio, video, lighting, HVAC, and other systems, — with easy-to-use controls and icons, true feedback and real-time status display, full-motion video windows, and advanced navigation of digital media servers, tuners, and other devices.

Streaming video capability makes it possible to view security cameras and other video sources over the network right on the touch screen display. Native support for H.264 and MJPEG formats allows the TPMC-8X-GA to display live video images from Web cameras and servers such as the Crestron CEN-NVS200 Network Video Streamer. And, through its embedded Web browser and media player, it supports a wide variety of other streaming and downloadable video formats, enabling access to all kinds of content from media servers and Web sites like YouTube® and Netflix®.

Isys™ Wi-Fi Touch Screen Control Package AV2-TPMC-PAK

This complete Crestron® control package includes the TPMC-8X-GA Isys™ Wi-Fi Touch Screen with docking station/charger, 2-Series AV2 control system with Ethernet card, and (4) IRP2 IR probes. It is an excellent choice for both commercial and residential applications



DVPHD

High-Definition Digital Video Processor



Envision a world class multimedia presentation system for the boardroom, auditorium, command center, home theater or house of worship.

Picture all your video and computer resources displayed in perfect harmony and clarity within a dramatic graphical environment all on one high-definition screen. Imagine the ability to seamlessly control the presentation and annotate ideas with a stroke of a finger.

The DVPHD is configurable to handle up to eight different inputs of virtually any type, including DVI, HDMI™, DisplayPort (Multimode), HD-SDI, and analog signals. Industry-leading support for HDCP ensures seamless compatibility with content-protected DVD, Blu-ray Disc™, digital HDTV, and multimedia computer sources. Advanced high-definition image processing achieves astounding realism and detail for every input signal, with the ability to display up to eight separate video images at once, or seamlessly switch between them using alluring digital transition effects and customizable graphics.

On any sized display, whether viewing a full-screen image or multiple windows with graphics, the DVPHD scales its output perfectly to match the display's native resolution and aspect ratio. Exceptional image sharpness and resolution is achieved from SDTV, HDTV, and computer sources using Gennum Visual Excellence Processing™ with RealityExpansion™ 30-bit image processing and TruMotionHD™ fully adaptive deinterlacing.

The DVPHD displays up to 8 simultaneous, full-motion video windows on any high-resolution monitor, projector, or flat panel display. The video windows can be displayed on screen in any combination, with enhanced dynamic text capabilities for labeling each window. Video images can even fade or fly in and out over a personalized background using digital transition effects and customizable Crestron Isys® graphics, lending enhanced flow and vibe to the total presentation. Each window is fully-scalable and independently controllable, allowing for display at any position, size, or aspect ratio.



QuickPack™ Classroom AV System Package

Wall Speakers, Ceiling Projector Mount, 3 Sources

Crestron® QuickPack™ systems provide educators with a simplified yet comprehensive classroom presentation solution that saves time and money. Designed to deliver the highest level of quality and convenience without eating up the AV/IT budget, QuickPacks™ assemble all the vital pieces needed to outfit classrooms for an engaging experience.

QuickPacks make it easy and affordable to install a quality projection system in every classroom, ending the days of wheeling in the AV cart, or forcing students to squint at a tiny TV screen. Each QP-300 package includes a professional wall mount controller, a pair of high-performance surface-mount speakers with amplifier, a universal ceiling projector mount, wall plate inputs for (1) video and (2) VGA computer sources, cabling and connectors. Just add

your choice of video projector and screen and you've got a complete installed classroom presentation system. QuickPacks also integrate seamlessly with interactive whiteboards and wireless microphones.

Installing a QuickPack is as simple as hanging the projector, mounting the controller, speakers, and wall plates, and connecting each of the cables. The precision ceiling projector mount accommodates virtually any projector up to 50 lbs, and includes everything needed for installation in a typical 2x2 or 2x4 drop-tile ceiling or on a flat, solid surface. The controller and wall plates each mount in an extrude electrical gang box or trim ring. The plenum-rated cables are each provided with one end terminated and compression connectors furnished for the other, making it easy to cut the cables to length and pull through ceiling spaces and conduit.



CRESTRON MOBILE PRO

Control App for iPhone®, iPad® and Android™ Devices

Take full control of the home, office or boardroom from any Apple iOS or Android™ mobile device. The popular Crestron Mobile Pro® app turns a mobile device into a virtual Crestron touch screen. Using a wide variety of smartphone and tablet devices, Crestron Mobile Pro gives control of home theater or whole-house AV systems, lighting, climate control, shades, security and other functions from virtually anywhere.

Open Platform Crestron Mobile Pro is engineered for scalability and open-platform compatibility. A system configured to work with an Apple device also works with Android, so all devices work the same and every user enjoys the same quality user experience.

Gestures Navigation Swipe, flip and rotate — gestures navigation has become the natural way we communicate and search for data on our mobile devices. Native to Crestron Mobile Pro, gestures navigation lets you browse through control menus, media playlists or AV sources with a simple finger swipe. Need to go widescreen? Simply rotate the device and the screen reformats automatically. Whether in portrait or landscape mode, everything you need is just a touch away.

Customizable Graphics Crestron mobile apps give developers a clean canvas on which to create stunning graphics and intuitive user interfaces. A truly customizable app, Crestron Mobile Pro allows GUIs from Crestron touch screens to be seamlessly transferred to mobile devices for consistent styling and functionality.

Global Connectivity Supporting Wi-Fi and mobile broadband network connectivity, Crestron Mobile Pro keeps you connected wherever you are. Even away from home you can turn lights on or off, let the repairman in, or check the security system to see if the kids are home.

Streaming Video View live video streams right from Crestron Mobile Pro — the perfect way to keep an eye on your home while away, see who's at the front door, or catch a glimpse of the baby's room. Most popular IP cameras and video streamers including the Crestron CEN-NVS200 enable the viewing of live video within the Crestron Mobile Pro user interface letting you simultaneously see and control what's going on.



Stewart Gallery Series Projection Screen



The Gallery Wall Screen is a custom screen frame with an elegant, sculpted shape that is available in a wide variety of materials, finishes and colors. Creating a visual appeal much like a fine art presentation, the Gallery screen frame can be matched to any room's décor, enabling visual integration into a variety of environments where the appearance of a square-bordered projection screen may be incompatible, whether in board rooms, high-end museum or digital signage presentations, or homes.

With each frame custom built to order, the Gallery Wall Series provides designers and architects with a rich palette of materials, textures and colors to choose from, including the ability to use custom, designer specified colors and textures. Specialized architectural frame finishes include brushed aluminum, satin anodizing and powder coating. Each is available in an extremely wide range of color options that include color chip matching. Frames that will be finished on site can be provided with paint-grade primer finishing. Custom fabrication of the frame is possible, with materials including leather, linen, and even crystals, with additional options limited only by the designer's creativity.

The Gallery frame can be used with any of Stewart Filmscreen's award-winning flexible screen materials, including both front projection and rear projection types. To create the finishing touch to the visual experience, Stewart's optional black VeLux trim can be used to perfectly frame the video image within the inside edge of the frame.

Stewart Cine-V Projection Screen



Many Hollywood blockbusters are produced in formats such as Cinemascope where the movie is 2.35 times wider than it is high. When watching this aspect ratio on a 16:9 screen, 33% of the pixels are used to create annoying black bars, therefore reducing your image resolution.

Designed for use with an anamorphic lens, the Cine-V features a native 2.35:1 image area allowing full enjoyment when watching movies in the super-wide cinemascope format. Maintaining a constant vertical height, two electronically controlled masking panels drop down to the left and right of the screen to create a perfect HDTV image area.

- Dual Aspect Ratio - Constant Height/Variable Width
- Native 2.35:1 Cinemascope aspect ratio
- Aluminum extrusion curved frame finished with VeLux™
- Electronically controlled vertical masking
- Snap fastening securely attaches screen to frame
- Choose from a variety of Stewart's front projection screen materials
- Curvature reduces screen surface exposure to crossreflected and side wall sources of ambient light
- Heightens viewer's sense of immersion
- Custom radius manufactured to optimize your application
- Complements projectors with anamorphic lenses
- (2) external 12v triggers (VICS) - vertical panel control

Stewart CineCurve Projection Screen

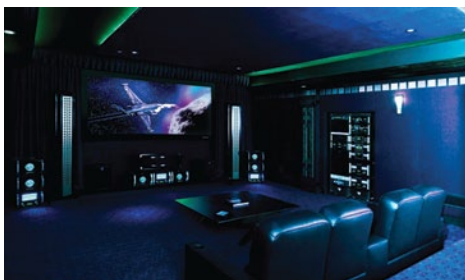


Many Hollywood blockbusters are produced in formats such as Cinemascope where the movie is 2.35 times wider than it is high. When watching this aspect ratio on a 16:9 screen, 33% of the pixels are used to create annoying black bars, therefore reducing your image resolution.

Designed for use with an anamorphic lens, the CineCurve features a native 2.40:1 image area allowing full enjoyment and flexibility when watching movies in super-wide screen formats. Maintaining a constant vertical height, two electronically controlled masking panels glide in from the left and right to create the perfect image area when viewing different types of media or movies filmed in various aspect ratios.

- Variable Aspect Ratio - Constant Height/Variable Width
- Native 2.40:1 aspect ratio
- Aluminum extrusion curved frame finished with VeLux™
- Electronically controlled side masking
- Snap fastening securely attaches screen to frame
- Choose from a variety of Stewart's front projection screen materials
- Curvature reduces screen surface exposure to cross reflected and side wall sources of ambient light
- Heightens viewer's sense of immersion
- Custom radius manufactured to optimize your application
- Complements projectors with anamorphic lenses
- BRIC - The Binary Reciprocal intelligent Control System

Stewart Cine-W Projection Screen



Many Hollywood blockbusters are produced in formats such as Cinemascope where the movie is 2.35 times wider than it is high. When watching this aspect ratio on a 16:9 screen, 33% of the pixels are used to create annoying black bars, therefore reducing your image resolution.

Designed for use with an anamorphic lens, the Cine-W features a native 2.35:1 image area allowing full enjoyment when watching movies in the super-wide cinemascope format.

- Native 2.35:1 Cinemascope image area
- Curved aluminum extrusion frame with 5" VeLux™ border
- Choose from a variety of Stewart's front projection screen materials
- Curvature reduces exposure to cross-reflected and side wall sources of ambient light
- Heightens viewer's sense of immersion
- Custom radius to optimize your application
- Screen curve corrects for the pincushion geometry of anamorphic lenses
- Wall mounting brackets

Stewart Luxus Screenwall Projection Screen



As one of Stewart's admired fixed models, this 1-1/2 inch square tube frame designed for easy assembly and installation. Optimize your Luxus Screenwall with any of Stewart's award-winning front projection materials. Microperf X® and Cinemapert® are available when acoustic transparency is required. Stewart's exclusive VeLux™ black-velvet appliqué gives the Luxus Screenwall a luxurious look and feel. This specialized frame finish absorbs possible over-scan while boosting perceived contrast.

- 1-1/2" Aluminum extrusion square tube frame
- 45° angled corners with slip joints for easy assembly
- Choose from a variety of Stewart's front projection materials
- Snap fastening system attaches material to frame
- VeLux™ applique finish
- Wall mount brackets 1.5 fabric is available in sizes up to 8' high. High Power fabric is available in sizes up to 9'x12' and will be seamless up to 6' high.

Stewart Luxus Deluxe Screenwall Projection Screen



The Luxus Deluxe Screenwall provides a picturesque appearance within any atmosphere. As one of Stewart Filmscreen's most popular fixed models, this 3.25" wide, beveled edge frame was strategically engineered for easy assembly and installation. This contemporary screen model is great for use in a home, boardroom, auditorium or any other location in which a projection screen is to be utilized.

Available with any of Stewart's front or rear projection materials, the Luxus Deluxe Screenwall allows for a perfectly tensioned screen surface. The exclusive VeLux™ appliqué finish absorbs projector over-scan and also helps to increase perceived contrast.

- 3-1/4" Aluminum extrusion frame with beveled edge
- 45° angled corners with slip joints for easy assembly
- Choose from a variety of Stewart's front projection materials
- Quick-Snap fastening system attaches material to frame
- VeLux™ applique finish
- EzMount brackets for wall mounting

REDEFINING THE STANDARD

With you in mind, Da-Lite has upgraded the standard features included on the bestselling Advantage® and Contour® projection screen lines.

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**Standard Silent Drive System
& Standard Low Voltage Control**



Smooth Roll Technology



Slim-Tabs



Simple Installation



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FOR YOUR IMAGE™



DA-LITE **New Tensioned Advantage® Electrol®**
Projection Screen



- Tensioning system provides an extra flat surface for optimum image quality
- Front projection surfaces standard with black backing for opacity.
- Handsome finished white aluminum case provides a clean look and allows easy installation of ceiling tiles
- Designed to have the case installed during the "rough-in" stages of construction and the fabric assembly during the finish stage
- For easy installation, the Advantage® is available with SCB-100 and SCB-200 (RS-232 serial control board) built into the case
- The Tensioned Advantage® Case meets Underwriters Laboratories (UL) Plenum Testing Standards for use in air handling space
- Matte White fabric up to and including 12' high will be seamless. High Contrast Matte White is available in sizes up to 10' high. Video Spectra 1.5 fabric is available in sizes up to 8' high. High Power fabric is available in sizes up to 9'x12' and will be seamless up to 6' high

DA-LITE **New Advantage® Electrol®**
Projection Screen



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DA-LITE **New Tensioned Contour® Electrol®**
Projection Screen



- Front projection surfaces standard with black backing for opacity
- Tensioning system provides an extra flat surface for optimum image quality
- Stylish curved aluminum extruded case available in either black, white or graphite finish
- An optional choice of seven veneer finishes are also available for the front cover of the screen case for a warm, elegant look
- Adjustable mounting brackets make wall or ceiling mount installation quick and easy
- Screen surface retracts completely into the case for a clean, modern appearance when screen is not in use
- For easy installation, the Tensioned Contour® Electrol® is available with SCB-100 and SCB-200 (RS-232 serial control board), or Video Projector Interface built into the case

DA-LITE **Large Cosmopolitan Electrol®**
Projection Screen



- The Large Cosmopolitan® Electrol® features a two piece aluminum extruded case with dimensions measuring 7-7/8" high by 6-3/4" deep and maximum seamless screen dimensions of 16' x 16'
- Two piece case design allows access to the motor and roller. Ceiling and wall mounting brackets are included for installation ease
- An optional choice of seven veneer finishes are also available for the front cover of the screen case for a warm, elegant look. Veneers available include Honey Maple, Medium Oak, Heritage Walnut, Mahogany, Light Oak, Natural Walnut and Cherry. Case covers with Honey Maple, Light Oak and Medium Oak finishes come standard with white base and end caps. Cherry, Mahogany, Natural Walnut and Heritage Walnut cases covers come with black base and end caps
- Standard with a Decora style three position wall switch
- The Large Cosmopolitan® Electrol® is available with a built in low voltage control option

DA-LITE **Designer Contour® Electrol®**
Projection Screen



- Featuring a stylish curved aluminum extruded case, standard with a white powder coated finish (also available in black or graphite case finishes), with dimensions of only 4-5/8" high x 4-3/32" deep
- An optional choice of seven veneer finishes available for the front cover of the screen case for a warm and elegant look
- Veneers from available include Honey Maple, Medium Oak, Heritage Walnut, Mahogany, Light Oak, Natural Walnut and Cherry. Case covers with Honey Maple, Light Oak and Medium Oak finishes come standard with white base and end caps. Cherry, Mahogany, Natural Walnut and Heritage Walnut cases covers come with black base and end caps
- An optional Low Voltage Control unit can be built directly into the case for easy installation
- Standard with a Decora style three position wall switch.
- Matte White, High Contrast Matte White and Video Spectra 1.5 fabrics will be seamless in all sizes. High Power fabric will be seamless in sizes up to 6' in height

DA-LITE **Heavy Duty Fast-Fold® Deluxe Screen System**
Projection Screen



- Heavy Duty Fast-Fold® Deluxe frame and legs are constructed of sturdy 3-1/2" wide by 1-1/4" thick aluminum tubing and feature easy release latches for simple, quick set up and tear down of the screen
- Available with Da-Mat®, Da-Tex® (Rear), High Contrast Da-Tex® (Rear), Dual Vision and Ultra Wide Angle (Rear), all Heavy Duty Fast-Fold® Deluxe surfaces are interchangeable with Fast-Fold® Truss surfaces for easy substitution
- All viewing surfaces up to 16' high will be seamless
- Complete screen also includes a rugged carrying case with wheels and is available in sizes from 7' x 9' up to 16' x 27'6"
- The Heavy Duty Fast-Fold® Deluxe with Da-Mat® fabric is standard with a foldable black backed material. This exclusive feature allows for the portability of a Fast-Fold® screen with the superior image quality and opacity of a black backed material

DRAPER[®]

Innovation since 1902



Quality Unsurpassed

With one of the most comprehensive product lines in the world, Draper manufactures a projection screen for every need!

Draper is dedicated to producing the highest quality projection screens available; motorized or manually operated screens for ceiling-recessed or wall installation and many portable models. No one else manually inspects each screen for quality and accuracy before it leaves the factory.

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DRAPER® Luma

Manual Projection Screen



The Luma is a wall/ceiling projection screen for small to medium sized groups. Spring-roller operated, it is housed in a pentagonal steel case with a scratch-resistant white polyester finish and matching endcaps that form universal hanging brackets for attachment to a wall or ceiling.

- AutoReturn Roller—The screen unrolls in the conventional manner, then slowly and gently retracts after a simple tug on the handle
- Extra Drop—Up to 8' overall height, either white or black (white is standard or AV format, black for other formats)
- Black Masking Borders—Available on AV format screens: 1 1/2" wide in sizes through 70" x 70"; 2" wide in larger sizes. All other formats have black borders on all four sides
- Projected Mounting Brackets—6", 10" and 14" fixed, and 18 1/4"—24" adjustable. Shown at lower left
- Pull Cord—For sizes 70" wide and larger, a pull cord is included
- Custom sizes available
- Available in NTSC Format from 6' to 10' diagonal and HDTV Format from 65" to 106" diagonal

DRAPER® Targa

Electric Projection Screen

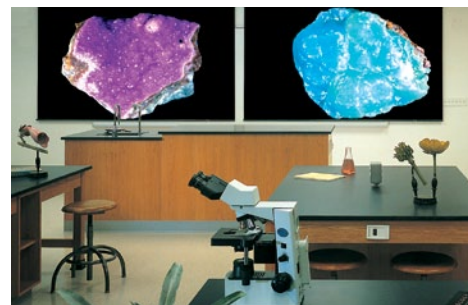


The Targa is an electric projection screen ideal for auditoriums and lecture halls, hospitals, hotels, churches, boardrooms and conference rooms. The motor is mounted inside the roller for a trim, balanced appearance. A pentagonal steel case is scratch-resistant white polyester finish with matching endcaps.

- Now available in 16:10 and 15:9 laptop presentation formats.
- Screen operates instantly at the touch of a button and stops automatically in the "up" and "down" positions
- Viewing surface can be lowered to any position at the touch of a switch
- NTSC, HDTV and Widescreen format screens have black borders on all four sides
- Available with a ceiling trim kit for ceiling recessed installation
- With control options, it can be operated from any remote location
- Depending on surface, available in sizes through 16' x 16' and 240" NTSC
- Custom sizes available
- Warranted for one year against defects in materials and workmanship.
- Plug & Play with built-in Low Voltage Controller (LP) and Plug & Play with built-in Quiet and Low Voltage Controller are now available (QLP)

DRAPER® Silhouette Series E

Electric Projection Screen



The Silhouette Series E is an electronically operated projection screen with slender dimensions and a contemporary design that can be mounted to a wall or ceiling. When retracted, the screen and dowel disappear completely inside the case.

- Now available in 16:10 and 15:9 laptop presentation formats.
- Conduit connection is provided at back or top
- Front fascia is removable without tools giving easy access to roller and motor for service
- With control options, it can be operated from any remote location
- Depending on surface, available in sizes through 96" x 96" and 10' NTSC
- Custom sizes available
- Warranted for one year against defects in materials and workmanship.
- The slender, curved aluminum case and endcaps are finished with our standard white. Also available in black or dove grey
- Plug & Play with built-in Low Voltage Controller (LP) and Plug & Play with built-in Quiet and Low Voltage Controller are now available (QLP)

DRAPER® Access Series E

Electric Projection Screen



Eliminate installation problems by installing the case first with the Access Series E electric projection screen. The extruded aluminum case is UL approved for use in environmental air space, featuring ceiling trim flanges, a pre-wired junction box and movable brackets for a smooth operation. The viewing surface and roller can be installed at the same time or can be added quickly and easily without tools at a later date. This series offers your choice of viewing surfaces: Matte White, Glass Beaded, High Contrast Grey or acoustically transparent at AT1200 or AT Grey.

Extra Drop—Additional drop is optional, either white or black. (White is standard for Series E in AV format. Black is standard for Series E in all other formats and for all Series V screens).

Black Masking Borders — Borders are optional for Series E in AV format. Borders are standard for Series E in all other formats and for all Series V screens.

- Now available in 16:10 and 15:9 laptop presentation formats
- Install an Access case first and the screen later
- Motor-in-roller assures quiet and smooth operation
- Depending on surface, available in sizes through 12' x 12' and 200" NTSC
- Custom sizes available
- Warranted for one year against defects in materials and workmanship.

DRAPER® RoadWarrior

Portable Projection Screen



The perfect screen for today's ultra-portable projectors, the Draper RoadWarrior lets you travel light and still deliver a big presentation. Available in six sizes and designed with today's presenter in mind, it can be set up in seconds on the floor or table in four easy steps: Set the case where you want it, release two clasps, position feet and extend the screen.

The screen height adjusts instantly, at the touch of a finger. Setting up the RoadWarrior is a snap, and it's compatible with resolutions up to 1200 x 1600 and beyond, with a broad viewing cone and accurate color rendition. This portable projection screen and its detachable shoulder strap is a great companion for portable presentations.

- Screen case is made of extruded aluminum.
- Includes 3/4" black borders and 30" black "rise" to clear a standard tabletop
- Surface raises at the touch of a finger
- Pneumatic cylinders hold screen securely at desired height
- Available in 60" and 80" diagonal NTSC format and 55" and 73" diagonal HDTV format
- Remarkably inexpensive, considering its high quality
- Optional Padded Carrying Case—Tough, flexible, and lightweight
- Warranted for one year against defects in materials and workmanship

DRAPER® Onyx

Fixed Projection Screen



An attractive frame and uniquely effective fabric tensioning system make Onyx the leader in permanently tensioned screens. The frame is beveled aluminum, black in color and 4" wide to absorb projector overscan. This screen assembles quickly and easily in about ten minutes. And the Onyx's "snap free" constant tensioning system applies uniform tension to the entire surface area.

- There are no snaps! Uniform tension is applied to the entire surface area, so the surface is perfectly flat
- Unique fabric retention system enables you to adjust the surface tension up to 1-1/2", both vertically and horizontally in increments of approximately 3/8" in just seconds, without tools
- Frame finish: Black aluminum is standard. Add optional Vel-Tex, velvety black textile, to eliminate reflections
- Depending on surface, available in sizes through 120" x 120" AV and 15' NTSC
- Custom sizes available
- Warranted for one year against defects in materials and workmanship
- The Onyx is now available with a Curved Frame

It's All About the Screen



original photo

Install: Amicus Therapeutics, NJ
Integrator: Bob Smith, Itec Consultants
Installed 147" FUSION HD
Photography: by Zivko Grcic

FUSION-HD

High-Definition Rear Projection Screen

Fusion-HD by Vutec is a rigid acrylic rear screen, representing the latest engineering advancement in rear-projection screen technology. Its durable, scratch resistant, multi-layer design, diffuses the image evenly across the entire screen surface to create exceptional screen uniformity, clarity, and high image resolution.



For a quick response,
email sales@vutec.com or call **1-800-770-4700**
www.vutec.com



VUTEC Lectric I™

Motorized Projection Screen



Lectric I™, Vutec's most popular motorized projection screen, features a durable aluminum housing for wall or ceiling applications. Representing the best value in its class, Lectric I™ comes standard with value-added features, including Vutec's EMS™ EZ-Mounting System, for wall or ceiling applications.

Lectric I™ provides users with maximum versatility and interfaces with optional low voltage relays, IR, RF, RS-232, 12 volt triggers, and IP controls.

- Surface mount for wall or ceiling
- Vutec EMS™ (EZ-Mounting System) included
- Heavy duty aluminum housing with choice of black or white finishes
- Quiet motor-in-roller design
- Ribbed aluminum roller featuring Vutec's FRS™ (Fabric Relief Step)
- Standard 12" black leader
- Interfaces with low voltage relays, IR and RF remote controls
- Requires hard wired installation
- Meets requirement for fire-resistant and low smoke-producing characteristics
- 1 year warranty

CUSTOM SIZES AVAILABLE

VUTEC Lectric II™

Flush Ceiling Mount Screen with Service & Trap Door



The Lectric II™ is an extruded aluminum ceiling flush mount motorized screen, suitable for air handling spaces, and designed for use with all self-supported screen surfaces. This design accommodates additional leader lengths, includes a built in ceiling trim kit and an easy screen mounting internal sliding bracket system.

Lectric II™ also includes a pre-construction option that allows the housing to be installed independently prior to the fabric and motor assembly. This provides for safety and ease of installation for new construction or renovation applications.

- Aluminum housing is standard with the choice of black or white finishes; custom finishes are available
- Pre-construction housing available
- Ribbed Aluminum roller featuring Vutec's FRS™ (Fabric Relief Step)
- Standard 12" black leader set at 6"
- Manual wall switch control included
- Integrates with most VUTEC control systems
- Requires hard-wired installation
- 1 year warranty

CUSTOM SIZES AVAILABLE

VUTEC Elegaté™

Fixed Screen



Elegaté fixed frame wall screen is a competitively priced front projection screen. It is a permanently tensioned, easy-to-use projector wall screen that is available in Matte White or Matte Gray screen surfaces to suit the viewing environment.

Elegaté standard features include a black beveled frame, our VTS™ system for easy installation and is available in three formats to complement any size viewing room.

- Easy to assemble
- Extruded 1 7/8" aluminum beveled frame
- VTS™ (Vutec Tensioning System)
- Black velvet finish
- 1 year warranty

VUTEC Retracta-Vu Pro™

Motorized Rising-Arm Screen



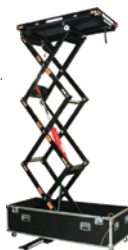
Retracta-Vu Pro™ is Vutec's patented motorized rising-arm screen, featuring Vu-Flex Pro self-supported fabric. Retracta-Vu Pro is designed to overcome room limitations and can retract into either a customized cabinet or directly into the floor.

- Screen can be cabinet mounted or recessed in floor
- Includes Vutec's Vu-Flex Pro internally-tensioned fabric
- Available from 84" to 300" diagonal
- Interfaces with optional low voltage relays, IR and RF remote controls
- Requires Vutec consultation and sign-off
- 1 year warranty

Retracta-Vu Traveller Projector Lift

Retracta-Vu Traveller Projector Lift™ is an all in-one solution, designed for the Rental & Staging market, providing instant installation with no assembly required. Simply roll into place, connect to a power outlet, and deploy up to 10'.

Retracta-Vu Traveller Projector Lift™ is a self-contained scissor lift system that will raise the projector to the desired height. The quiet electric lift and tilt system will align the projector to the projection screen. Retracta-Vu Traveller Projector Lift™ safeguards the projector and lift within case during transport. The case provides dust free protected storage.



VUTEC SilverStar 3D-A™

2D/3D Passive Fixed Screen



SilverStar™ 3D-A (Active technology) is Vutec's award winning 3D + 2D + HD in one optimal projection screen. This revolutionary high gain screen delivers the ultimate in picture quality, vivid colors, high contrast, and a wide viewing area to produce a true 3D cinematic experience.

SilverStar 3D-A's superior performance begins with its innovative, patented metallic based technology to provide the ultimate performance. This state-of-the-art technology increases color saturation while expanding contrast in controlled or uncontrolled lighting environments. Image brightness loss from viewing through 3D glasses diminishes approximately 50%. This is created by the polarization process that is creating the 3D effect. By utilizing SilverStar™ 3D-A, the viewer will reclaim light loss to produce a brighter more vivid 3D viewing experience.

SilverStar™ 3D-A is custom made to order and can be multiplexed for large theaters. With unsurpassed versatility, it is the screen of choice for home theater systems, retail displays, command and control (NOC), worship, and education venues.

- 3D-A + 2D + HD in one screen
- Superior ambient light rejection, High Contrast & Vivid Colors
- Extruded 1 1/2" black velvet finished frame (BVF)
- Rigid Surface
- Optional adjustable tubular stand legs
- 1 year warranty

CUSTOM SIZES AND FORMATS AVAILABLE, ALSO AVAILABLE WITH CURVED FRAME

VUTEC DecoFrame™

Flat Panel Art Frames



DecoFrame™ transforms a Flat Panel Display into a stylish room accessory. DecoFrame™ is designed to fit most flat panel displays without speakers and provides a finishing touch to enhance any room décor.

The selection of sizes and elegant frame finishes will transform any Flat Panel Display into a finished framed product.

- Easy frame installation
- Choice of many frame styles with black liner included
- Adjustable to fit most bezels
- Slim Line mounting options available
- Safety mounting system
- Includes padding for bezel protection
- Wireless speakers optional
- All orders must be submitted using Vutec's Deco Frame order form
- Location of the 3D emitter (internal or external) must be provided
- Built-in IR repeater
- Diagonal sizes: 32", 37", 40", 42", 46", 50", 52", 55", 60", 63", 70", 72", 85", 103"
- 1 year warranty



Navitar produces projection lenses that help overcome the limitations of standard LCD and DLP projectors. Our lenses let you place the projector almost anywhere while maintaining high quality images. Our commercial off-the-shelf and custom projection solutions serve the church, home theater, education, simulation, digital display, planetarium, amusement, military, OEM and 2D/3D/4D cinema markets.

HemiStar®

Fisheye Projection Lenses

Navitar offers a series of HemiStar fisheye lenses ideal for spherical projection, inflatable domes, and small to mid-size planetariums.

100°/160°/180°/360°

The versatility of HemiStar lenses allows for endless combinations of projector panel sizes and resolutions.



NuView®

Replacement Projection Lenses

Navitar's high resolution NuView® projection lenses replace the existing prime lens of a projector allowing the projector to be used in a variety of new applications. With a wide selection of stock and custom designed long-throw zoom and wide-angle lenses to choose from, we are sure to have a replacement lens solution for any application, screen size or projection distance. NuView® lenses produce the bright, sharp images needed at affordable prices.

NUVIEW® LONG THROW ZOOM LENSES

Use a long throw lens to increase projection distance and move the projector farther from the screen. The zoom feature allows you to choose your projection distance and image size by simply rotating the lens.

NUVIEW® WIDE ANGLE FIXED FOCAL LENSES

Use a wide angle lens in rear screen applications or to produce much larger images for front projection.



Custom Lenses

4K Projection Lenses

Navitar has partnered with some of the world's foremost producers of dome theater equipment, simulation and modeling technologies, and providers of high resolution, full motion immersive environments and display systems.

EXAMPLES OF CUSTOM LENSES INCLUDE:

- Full 180° lenses for use in immersive amusement park rides
- Custom lenses designed for 4K projection applications
- Relay lens and projector lens combinations for planetarium applications
- Ultra high resolution projection lenses for curved-screen flight simulation applications



ScreenStar®

Projection Conversion Lenses

Navitar ScreenStar® wide-angle and long throw conversion lenses sit in front of the projector's standard lens to increase your picture size or increase the throw distance by 20-50%. These lenses decrease the overall cost of installations by allowing you to reduce the number of projectors being used or by selecting a lower cost, less featured projector.

STANDARD SCREENSTAR® LENSES

Let Navitar's ScreenStar lenses solve all your projection issues. ScreenStar lenses are compatible with a wide range of projectors including simulation and training projectors, home theater projectors, conference projectors, portable and educational projectors and projectors in price points of low cost, mid range and high performance projectors. No need to worry about technology wars between DLP vs LCD - ScreenStar lenses work with most projectors including standard 4:3 format as well as 16:9 format HD video projectors.

HD SCREENSTAR® LENSES

HD ScreenStar wide angle conversion lenses are specially designed to match the performance of HD projectors. When placed in front of the projector's existing prime lens, the image size or throw distance can be changed with no loss of quality in the conversion.

These highly-corrected lens systems, optimized for 1080p resolution, also compliment other formats such as WXGA, WUXGA and SXGA+. If the application includes higher resolution graphics and video from sources such as Blu-ray DVD players or computer generated training/simulation programs, HD ScreenStars will maintain the integrity of the images, without compromising quality.

MINI SCREENSTAR® LENSES

Navitar's Mini ScreenStar lenses are designed to be used with small profile, low cost projectors with panel sizes 0.8" or smaller. The compact design blends well with projector body styles and is so lightweight it fits into a projector or brief case for easy transport.



FURMAN

For well over 35 years, Furman has been the leading manufacturer of AC power conditioners, AC voltage regulators, balanced isolation transformers, and AC distribution equipment for audio, video, and broadcast professionals.

Furman's products are relied upon by respected professional musicians, renowned recording and film studios, and major touring and performance companies throughout North America and across the world. They choose Furman for their reputation for reliability and years of engineering expertise focusing on the specific needs of industry professionals that cannot afford equipment failure or downtime.

Product Lines

Categories

- Rack Mount Power Conditioning
- Compact Power Conditioners
- Power Stations
- Pro Plugs
- Headphone Systems
- Sequencers and Distros
- Voltage Regulators
- Compact Power Management & Signal Solutions
- Rack Kits

P-1800 PF R

Power Conditioner / Surge Suppressor

Engineered specifically for use with instrument amplifiers and other high-current equipment, the Furman P-1800 PF R offers a stable, protected and filtered low impedance powered supply for maximum performance of connected electronics. Furman's exclusive Power Factor provides a 45A peak current reservoir to minimize the detrimental effects of line impedance on high-current gear such as amplifiers and powered monitors.



Clear Tone Technology provides additional line noise filtration tuned for instrument amplifiers for clean and consistent tone. Plus, equipment benefits from professional-level protection thanks to Furman's exclusive SMP and EVS technologies.

PST-8

Power Station Series

The PST-8 all feature Furman's SMP circuit which incorporates Linear Filtering Technology (LiFT) and a high current TVZ-MOV to insure that any electronic device (including televisions, projectors, CD-DVD players, or computers) is fed clean, filtered AC power. This dramatically reduces noise, ensuring consistent peak performance from equipment.



MIW-XT

In-Wall Power and Signal Line Cord Management

MIW-XT extends noise free, safe power from Panamax / Furman Power Management components to remote panel displays, ceiling mounted video projectors and powered subwoofers. Discreetly hides behind electronic equipment for a neat, clean, code compliant and professional installation.



TRIPP-LITE

Tripp Lite is a leading manufacturer of products that power, connect and protect computers and other electronics. Founded in 1922, it is best known for its Uninterruptible Power Supply (UPS) Systems and Isobar® Surge Suppressors (with over 18 million sold).

Tripp Lite manufactures more than 2,500 products, many of which have earned multiple industry awards for design and function. Products include cost-effective and scalable power protection and connectivity solutions for Pro AV custom integrators of AV distribution, automation control, telepresence, digital signage, broadcast & studios, staging venues, healthcare, and security systems. Numerous models comply with governmental TAA and NAFTA regulations.

Product Lines

UPS Systems & Batteries

- Single and 3-phase systems
- Rack Mount and Tower configurations
- Total System Hot Swappable
- Energy Manageable
- Attachable External Battery Packs
- Hospital and Bio Med Grade
- Remote IP Access
- Control & Diagnostics



Power Distribution Units

- Basic
- Dual Circuit
- Horizontal Rack Mount
- Individual Receptacle Load Monitoring
- IP Manageable
- Metered
- Monitored
- Switched
- Vertical Strip
- 15, 20, & 30 Amp Options



Racks, Enclosures & Cooling

- Floor-Standing Enclosures
- Wall-Mount Enclosures
- Open-Frame Racks
- Rack Accessories
- Portable AC Units
- Variety of Depth Configurations

Surge Protectors & Line Conditioners

- Standard
- Premium Isobar®
- Rack-Mount
- In-Line
- Energy Saving
- Audio / Video
- Mobile
- Safety
- Hospital / Medical
- Industrial / Commercial



Also Available

- KVM Switches & Console Servers
- Cables & Connectors
- Power Inverters & Inverter / Chargers
- Power Strips
- Keyspan® Remotes & Adapters
- Mobility / Laptop Accessories
- Power Line Conditioners
- Isolation Transformers
- AC-to-DC Power Supplies
- Minicom KVMs & IP Remote Access



C2G (formerly Cables To Go), a division of Laster, Inc., is an industry leader in high performance cabling and connectivity solutions.

Founded in 1984, the company provides end-to-end connectivity solutions serving a variety of markets — including hospitality, education, healthcare, corporate, home theater and digital signage. C2G also delivers customized connectivity products and solutions renowned for superior quality, value, and innovation using premium components and the latest technologies to maximize cable performance and ensure compliance with industry specifications for each cable and its designated application.

Featured Product Line



RapidRun is a fast, complete, modular A/V cabling system for wiring ANY room for almost ANY situation. With RapidRun it is so seamless to install the cable infrastructure you need to display audio/video where you need it. HDMI, VGA, component video - all are ideal for RapidRun!



RapidRun makes installation easy. Simply install a runner cable that you can pull through the wall, and then connect with source and display terminations on each end of the runner. The source's audio/video signal travels through the runner and displays on the display monitor or screen.



Versatility - For analog video, choose any source signal: component video, composite video, s-video, or VGA with/without audio and then choose any display termination: component video, composite video, s-video, or VGA with/without audio, and they can be different for each termination! For digital video, choose HDMI or DVI at either OR both ends - for transmission up to 100 feet!

Save Time and Money - A Florida school district needed to QUICKLY install video projectors and multimedia equipment for 900 - 1,000 large classrooms. They slashed installation time by 75% - from 2 hours per classroom to 30 minutes!

Change Terminations in 1 Minute - One installer set up RapidRun for several classrooms only to be told to change the display terminations to match the new projectors the school district had bought. In just a few minutes, the classrooms were re-configured WITHOUT having to rip out wire!



Established in 1978, Shaxon Industries specializes in the manufacturing and distribution of high quality, cost competitive products for the data and telephone communications industry.

Specializing in the support and service of the wholesale distributor of cabling and interconnect products by providing them with technical support, product development and flexible manufacturing processes.

Shaxon is structured to meet the demands and needs of valued customers by stocking distribution hubs throughout the continental United States, and servicing customers with products and support is the key. Shaxon takes pride in building, testing, and packaging the highest quality of products.

Product Lines

Categories

- Custom Cables
- Patch Panels
- Patch Cables
- Outlets
- Wire Management
- Trunk Cables
- Fiber Optics
- Computer Cables
- Bulk Cable
- Modular Products
- Ethernet & Token Ring
- Connectors
- Audio / Video Cables
- Tools & Testers

HDMI

- Large selection of lengths and types in stock
- Custom wiring and lengths available
- Custom bagging, labeling, kitting available
- Molded adapters available

DVI / DisplayPort

- Large selection of lengths and types in stock
- Molding available in California*
- Custom wiring and lengths available
- Standard and custom molds available as well as assembled hoods
- PVC and Plenum available
- Molded adapters available

VGA / SVGA / BNC

- Large selection of lengths and types in stock
- Molding available in California*
- Custom wiring and lengths available
- Standard and custom molds available as well as assembled hoods
- PVC and Plenum available
- Custom bagging, labeling, kitting available
- Molded and assembled adapters available

* CONTACT IAVI AND SHAXON TO VERIFY THE AVAILABILITY OF SPECIFIC TOOLING.

Control Lights

Add, expand, or brush up on your lighting control skills. Not only would clients appreciate a lighting solution that saves energy and integrates with their AV, but lighting control could reduce your company's own carbon footprint.

Manage Projectors

Take advantage of projectors with eco-modes and make it the default setting. Where possible, or in conjunction with a control system, require a password to override the eco-mode.

Be Cable-Friendly

Favor system designs that transport signal over Ethernet or fiber to reduce copper and PVC use.

Show Results

Try to show client's typical use and maximum power consumption estimates for all equipment you specify. During commission, provide actual-use reports.

Plan Ahead

Stay on top of product developments and specify the latest technology in order to future-proof systems so clients can avoid replacing equipment too often.

Measure Savings

When pitching a green project, show clients estimated power savings in dollars and greenhouse gas reduction in tons of CO2 saved per year.

Save Paper

Given the digital age of technology this is the simplest way to save. Give clients their systems documents in electronic form, including drawings, to reduce or eliminate paper waste.

Control Systems

Employ control system-activated, automatic power-down cycles to minimize energy consumption when AV products are not in use for a certain amount of time.

Self-Analyze

If you have a rental and staging practice, conduct a periodic review of equipment to compare existing inventory with newer, more energy-efficient systems.

Eco Mode Management

When possible run your projectors on eco mode. This will help you to save on power consumption and get more life from your lamp.

Set Goals

Include power consumption/savings goals section in needs analysis and AV program reports. Track your progress and measure the impact.

E-Cycle

When old systems are being discarded, encourage owners to recycle in an environmentally responsible manner in compliance with their state's e-cycling rules.

Use the Network

Encourage clients to use network-enabled AV gear that can be attached to a LAN and be centrally controlled by software from companies like AMX and Crestron.

Recycle

Reuse and recycle batteries from AV events. Let the crew take home batteries that might be partially used and recycle the rest.

Learn Your EPAs

Look to vendors that take part in the EPAs Energy Star and Plug-In to e-cycling programs.

Compute Smart

Use energy-efficient servers and PCs in the office; discourage the use of PC screen savers; and implement a network-enabled power monitoring and reduction program.

Green AV

IAVI cares about our planet, and we know you do, too. Today, being environmentally responsible is not just cost-effective; curbing your carbon footprint is trendy and cutting-edge! IAVI proudly offers easy, affordable energy saving solutions for just about any Pro AV application.

We're always excited to share new technologies that provide better, smarter solutions. Constant advancements in the Pro AV industry allow for a more efficient use of resources, higher productivity and savings incurred over time due to the lower operational costs mitigate the initial expense of such progressive technology.

Selling the benefits of a green solution go beyond savings on energy, equipment life-extension, printing paper and ink; customers reward Green companies with their business, and employee productivity gains incurred as a result of happy, healthy employees offer additional economic payback.

Call an IAVI sales rep today to learn more about how your solutions can be environmentally and financially **GREEN!**

1080p ATSC high-definition 1920 x 1080 progressive scan video format where a complete frame of video is delivered at either 60 or 24 frames per second.

15 Pin D-Sub A connector for a PC's VGA port or analogue monitor.

16:9 Aspect ratio of an HDTV signal which is 16 units by 9 units, whatever size those units may be. In the film trade aspect ratios are described in relation to one, which means this aspect ratio is described as 16/9 or 1.78:1.

2.2 Pull-Down This refers to the electronics required to convert film footage to PAL and SECAM video format.

2:2 Pull-Down Method for transferring 24 frame-per-second film to PAL/SECAM video running at 25 frames per second.

2:3 Pull-Down Commonly called 3:2 pull-down, converts film footage to NTSC video. Film footage is shot at 24 frames per second (FPS) and NTSC video is shot at 30 FPS. 3:2 pull-down refers to the electronics needed to convert 24 FPS to 30 FPS so that it can be viewed on a NTSC video device. To accomplish this, 4 frames of film are converted to 5 frames of video by inserting an extra field of film frame every other frame.

3:2 Pull Down Method used to map the 24 FPS of film onto the 30fps (60 fields) of 525 line NTSC video, so that one film frame occupies three video fields, the next two, etc. In this way the film can play at a standard video rate. It means the two fields of every other video frame come from different film frames, this can cause problems in the editing process.

3D Ready A projector that is 3D Ready can accept a 120Hz frame-sequential 3D signal from a computer via either NVIDIA's 3D Vision system or one of several educational software suites. These projectors are not compatible with the HDMI 1.4 3D specification used on 3D Blu-ray players and set-top boxes. We also refer to this type of 3D as PC 3D Ready.

3LCD Common 3 color system for projecting images via LCD or Liquid Crystal Display. Uses dichroic mirrors to separate the RGB components of white light coming from a projection lamp. Each color is fed to separate LCD panels which controls the amount of colored light that passes through. The light from each LCD is recombined using a dichroic prism before going out the lens and onto a screen.

4:1:1 Sampling A ratio used to describe the sampling frequency of a digitized signal. The ratio describes luminance as being sampled 4 times at 3.37 MHz, while color is sampled 1 time at 3.37 MHz in each of its separate parts. DV, DVCAM and DVCPRO25 use 4:1:1 color sampling. Formulated as: Y (luminance) is sampled at 13.5 MHz (or 3.37 x 4), R-Y (color) is sampled at 3.37 MHz (or 3.37 x 1), B-Y (color) is sampled at 3.37 MHz (or 3.37 x 1) equals 4:1:1.

4:3/16:9 Dual Format This dual format enables the viewer to switch between alternative picture formats in traditional square or wide-screen views.

480i ATSC Standard Definition Television (SDTV) 720 x 480 or 640 x 480 interlaced video format where a frame of video is delivered in two fields. The first field contains the odd lines of the image and the second field contains the even lines. Each field is updated every 1/60th of a second resulting in 30 frames of video per second.

480p ATSC Enhanced Definition Television (EDTV) 720 x 480 progressive scan video format where a complete frame of video is delivered at either 30 or 24 frames per second. 480p also refers to a display format comprised of 854 x 480 pixels, 16:9 widescreen.

720p ATSC high definition 1280 x 720 progressive scan video format where a complete frame of video is delivered at either 60, 30 or 24 frames per second.

A Aliasing During the quantization or re-quantization process, unnecessary artifacts may be generated due to interpolation (a method for generating inter-sample data using compulation). This phenomenon is called "aliasing", and the distortion it causes is called "aliasing distortion" or "fold-back noise". Aliasing distortion can cause smear or flicker on the image.

ALIS Alternate Lighting of Surfaces is a method of achieving high definition and high brightness.

Ambient Light The light of lighting present in a room other than the light emitted by a projector.

Analogue These signals are the traditional format in which audio and video are transmitted. A digital signal will usually produce a superior video quality.

Anamorphic A technique for changing aspect ratios by optically or digitally stretching or compressing an image to or from a format with a different native aspect ratio. Movie studios used this technique to put the first widescreen movies on standard 35mm film and then used an anamorphic lens to recreate the image in the widescreen format in which it was originally shot.

AnimGIF An animation in the GIF format, capable of automatic looping playback. See also GIF.

ANSI Contrast The ratio between white and black. The larger the contrast ratio the greater the ability of a projector to show subtle color details and tolerate extraneous room light. There are two methods used by the projection industry: 1) Full On/Off contrast measures the ratio of the light output of an all-white image (full on) and the light output of an all-black (full off) image. 2) ANSI contrast is measured with a pattern of 16 alternating black and white rectangles. The average light output from the white rectangles is divided by the average light output of the black rectangles to determine the ANSI contrast ratio. When comparing the contrast ratio of projectors make sure you are comparing the same type of contrast. Full On/Off contrast will always be a larger number than ANSI contrast for the same projector.

ANSI Lumens ANSI lumens is a measurement of the overall brightness of a projector. Because the center of a projected image is brighter than the corners, ANSI lumens are the most accurate representation of the image brightness. ANSI lumens are calculated by dividing a square meter image into 9 equal rectangles, measuring the lux (or brightness) reading at the center of each rectangle, and averaging these nine points.

ANSI American National Standards Institute. A private organization that coordinates and administers various voluntary consensus standards such as ANSI lumens. The first ANSI standard was for pipe threading in 1919 when it was called the American Engineering Standards Committee.

API Application Programming Interface is the format used by an application to communicate with an operating system.

Artifacts Flaws and aberrations in a video image that derive from technical limitations in the capture, encoding/decoding, transmission, and display of a video signal.

ASCII (American Standard Code for Information Interchange) The universal standard for representing text letters, numerals, punctuation marks and control instructions in computer storage and communication.

Aspect Ratio The ratio of height over width of an image: a standard video monitor has an aspect ratio of three units of height (vertical) to four units of width (horizontal). This is expressed as a 3:4 aspect ratio. Can also be expressed as a decimal number, such as 1.77, 1.85 or 2.39. Images will become distorted if forced into a different aspect ratio during enlargement, reduction, or transfer. The aspect ratio for HDTV is 16:9.

ATSC (Advanced Television Systems Committee). Formed in 1982, this international committee develops voluntary standards for terrestrial digital television. Countries adhering to its standards include Canada, Argentina, Mexico, South Korea and the U.S.A. ATSC Digital TV Standards include HDTV, SDTV, data broadcasting, multichannel surround audio, and interactive television.

Audio In-and-Out Connections for external amplifiers and speakers to allow sound output.

Authoring Tools Authoring tools usually refers to computer software that helps multimedia developers create products. Authoring tools are different from computer programming languages in that they are supposed to reduce the amount of programming expertise required in order to be productive. Some authoring tools use visual symbols and icons in flowcharts to make programming easier. Others use a slide show environment.

Auto Balance A system for detecting errors in color balance in white and black areas of the picture and automatically adjusting the white and black levels of both the red and blue signals as needed for correction.

Azimuth The direction to point a satellite dish when coupled with altitude. Due north has an azimuth of 0 degrees and due east, 90 degrees, and so on.

B Bandwidth The number of cycles per second (Hertz) expressed as the difference between the lower and upper limits of a frequency band; also, the width of a band of frequencies. Practically speaking, bandwidth is the amount of data that can pass through a given connection per unit of time.

Bezel The frame or face of a device, such as, a projector grill, or CRT or LCD display frame.

Black Level The darkest part of a picture. This can vary between display devices and viewing environments. NTSC black is set at 7.5 IRE, which is very slightly gray. The white level divided by the black level gives a contrast ratio for a particular display device.

Blackboard Mode Blackboard mode gives the projector the ability to detect the color of a display surface such as a chalkboard or painted wall and adjust its output to optimize accurate color reproduction, contributing to increased comprehension and retention.

Bleeding Video distortion where color "bleeds" from an object onto other parts of the image which are not supposed to be that color.

Blooming Video distortion where an overly bright screen object causes phosphors near it to excite, therefore enlarging the object and softening its edges.

Bounding box The box, represented by the selection frame, that surrounds a multi-line text element. The element's text lines can be aligned within the bounding box (left/center/right) independently of the alignment of the element as a whole.

Bowing Video distortion where lines which should be straight are curved. See barrel distortion and pincushioning.

Brightness (Perceived) The brightness of a projection system can be precisely measured with a light meter. For example, a typical movie theater is setup to deliver 16' lamberts. The higher the foot-Lamberts, the brighter the image. A common misconception is that a projector with twice the foot-Lamberts of another projector will be twice as bright. While it is true that a light meter will detect it as twice as bright, your eye will not. The perceived brightness will increase by about 50%. It will not double because the human eye has a logarithmic respond to light.

Brilliant Color™ Brilliant Color technology enables a much broader set of options for manufacturers and end users to adjust color to their individual needs. There are projectors in the marketplace that supports up to 10 different pre-configured modes without impacting average lamp power or color fidelity.

Broadcast Server A machine that prepares and transmits broadcast files received from a Content Manager machine. Also may refer to the broadcasting software that runs on this machine, or the Content Manager definition of the machine's location.

Buffer An area of computer memory reserved for holding and compiling sufficient data to begin streaming.

Burn-in Image distortion where phosphors are discolored at a differing rates in a display device such as a plasma, CRT or SED TV. Usually caused by displaying a static image for extended periods of time. Screensavers are used to prevent burn-in on CRTs and plasma displays use a periodic dynamic single pixel shift of the image to avoid burn-in.

C **Cache** The high-speed computer memory used to speed up data transfer and store visited web pages temporarily or permanently.

CAT5 A data and communications cable adopted by the Telecommunications Industry Association and ISO (International Standards Organization); This version of Category 5 uses all four pairs of wires to both send and receive. This version is formally called ANSI/TIA/EIA 568A-5 or simply Category 5e. Category 5e operates at up to 350MHz striking each of its elements. CCD sensors (imager) are used in both motion video and still video cameras. (See FIT, HAD, Hyper HAD, IT)

CEA Consumer Electronics Association. An industry association of over 2,000 electronics manufacturers. Produces the Consumer Electronics Show, or CES.

CEDIA Custom Electronic Design and Installation Association. International industry association for home electronics installation and design related businesses. It also certifies members with professional designations.

Closed Circuit Television Traditionally, a private television network broadcasted internally within an organization. Modern narrowcasting solutions work over the Internet, deploying custom video and messaging anywhere in the world.

Closed-Captions Text, including subtitles, which is added to the video signal. It is referred to as 'closed' as it cannot be seen unless the receiving device requests it.

Coated Optics A variety of materials put on high quality lenses to minimize the amount of light reflected back to the lamp and the amount of ambient light that mingles with the focused light leaving the lens. Generally good coatings can add 15% or more to the lenses brightness. Other coatings are used for filtering colors.

Coaxial An audio or video cable with a single internal wire with an outer shield that is ground. In audio, a speaker type where one speaker is positioned within another larger speaker's cone.

Codec An acronym of Compression, Decompression. A device or a piece of software module responsible for compressing and/or decompressing an encoded media format such as AVI digital video, translating one file or signal format into another, ideally with an undetectable loss of quality.

Color Bar The horizontal strip at the top of most Design menus, used to assign colors to elements and certain styles. It shows the color chips of the current color set in the User palette, and also includes the Color Set Switcher.

Color Break-up Image anomaly which looks like a rainbow at the edge of bright objects on screen. Also called rainbow effect where sequential color systems, such as single chip DLP projectors or some LCoS RPTVs, update color information at different locations on the screen because of quick movement of screen objects or a viewer's gaze. For instance, the red component of a white object will show at a different location on the screen than blue when an object moves quickly across because color is being displayed sequentially. This also occurs with quick relative movement such as moving your gaze from point to point across the screen. Most noticeable in bright objects.

Color Depth The number of possible colors in a graphic image, stored as a given number of bits per pixel. A color depth of 8 bits provides 256 colors; 16 bits (also known as "High Color") provides about 65,000 colors; 24 bits (also known as "True Color") provides about 16,000,000 colors.

Color Temperature Color balance of white light which goes from red to blue as the temperature rises. Measured in degrees Kelvin, which starts at absolute 0 or -273 degrees Celsius, color temperature matches the reference standard of the light being emitted from a carbon block heated to the stated degrees. For instance, the early morning sun is around 2500K, which is the same warm light that a carbon block heated to 2227° Celsius would emit. Heating the block further to 10000° Celsius would emit the same bluish light of a blue-sky mid-day sun. Common color temperatures are 5500 Kelvin (black and white movies) and 6500 Kelvin (standard color films).

Color Wheel Rotating wheel with 3 or more translucent color filters used to display sequential color on single imager light valve based projection devices. The imager reflects or transmits the color component of a given image when the wheel's corresponding color filter is affecting the light passing through to the lens. A 1x wheel cycles through all colors in 1/60th of a second.

Comb Filter Chrominance and Luminance detail are preserved with the built-in Comb Filter. Prior to reaching the electron gun, the composite video signal is broken down into its separate luminance and chrominance signals as it passes through the comb filter, which reduces dot crawl and signal error.

Combing A motion artifact caused by interlace where an object has moved appreciably within a frame and its new position is displayed in a different position in one field over the other. Looks like the teeth of a comb.

Component Video Component Video is a method of delivering quality video (RGB) in a format that contains all the components of the original image. These components are referred to as luma and chroma and are defined as Y'Pb'Pr' for analog component and Y'Cb'Cr' for digital component. It is comprised of luminance (Y) and two chrominance channels of blue minus luminance and red minus luminance.

Composite Video Composite video is one of the most common AV connections and is the picture signal combined with synchronization and color information.

Compression Compressed data uses less bandwidth, saving computer memory space and enabling faster transmission. In display equipment, compression is used to convert resolutions, such as from XGA to SVGA, resulting in a clearer, sharper picture.

Contrast Ratio The ratio between white and black. The larger the contrast ratio the greater the ability of a video device to show subtle color details and tolerate ambient room light. There are two industry methods used: 1) Full On/Off contrast measures the ratio of the light output of an all-white image (full on) and the light output of an all-black (full off) image. 2) ANSI contrast is measured with a pattern of 16 alternating black and white rectangles. The average light output from the white rectangles is divided by the average light output of the black rectangles to determine the ANSI contrast ratio. When comparing the contrast ratio of video devices make sure you are comparing the same type of contrast. Full On/Off contrast will always be a larger number than ANSI contrast for the same video device.

Crestron RoomView Crestron RoomView Connected is built into projectors enabling direct network connectivity for remote management of AV networks. Crestron RoomView® Express software provides enterprise help desk management, remote monitoring and control of global AV networks without any special wiring, hardware or programming. Once connected to the network, classroom teachers and presenters can instantly control any installed RoomView Connected™ projector. With no programming required, AV and IT managers can globally monitor and control networked projectors throughout a school, campus, or corporate enterprise. Adding a Crestron control processor enables control of all AV devices, lighting and environmental systems on the network from any Crestron touch screen, Web browser and Apple® and Android® mobile devices including iPad™ and iPhone®. By leveraging the Ethernet port on RoomView Connected projectors and accessing RoomView, AV managers and support staff can remotely take control of classroom technology, troubleshoot and perform remote system diagnostics, track projector usage and lamp life, log network activity and much more. Remote capabilities allow efficient scheduling of projector power-off at preset times, routine maintenance, faster response times to support calls, alert notifications if projectors are disconnected, and broadcast messaging of emergency alerts to all projectors.

Crop To cover up portions of a graphic image that are not needed by adjusting its top, bottom, and side borders.

Cross Strap An adapter bracket that allows a display to be mounted to VESA patterns.

D **Daisy-Chainable** In electrical and electronic engineering a daisy chain is a wiring scheme in which multiple devices are wired together in sequence or in a ring. Other than a full, single loop, systems which contain internal loops cannot be called daisy chains. Daisy chains may be used for power, analog signals, digital data, or a combination thereof.

Decibel (dB) A logarithmic unit used to express the ratio between any two levels; normally used to show the difference between two sound levels. Because it is expressed on a logarithm scale, it is convenient for comparing values, which are considerably different.

Deinterlacer Electronic component that converts an interlace video signal to progressive scan.

Delay Commonly used in sound engineering where a sound is played back later at different speakers in order to maintain directionality of original sound. Uses the psychoacoustical phenomenon of precedence effect where a sound is first heard is where it is perceived to come from even when coming from multiple places.

Diagonal The diagonal of a screen or flat panel can be computed by using the Pythagorean theorem: squaring the width, squaring the height, adding them together and taking the square root. A 100" diagonal 16:9 screen measures 49" high by 87" wide; a 100" diagonal 4:3 screen measures 60" high by 80" wide. Use the Projection Calculator to get screen dimensions on all common aspect ratios.

Dichroic A mirror or lens that reflects or refracts selective wavelengths of light. Typically used in projector light engines to separate the lamps "white" light into red, green, and blue light.

DICOM (Digital Imaging and Communications in Medicine) provides the medical profession with the ability to simulate 21 different levels of grayscale in the rendering of X-rays, CAT scans, MRIs and other medical imaging applications.

Digital Signage Advertising An ad-based digital signage network displaying dynamic brand advertising

Digital Signage Display Refers to the LCD, Plasma, TV or LED screen used in a dynamic digital signage network.

Digital Signage Network A digital signage network is a series of interconnected flat panel screens or televisions that are presented similar to traditional signage, but can be controlled from a remote location to deliver dynamically changing content.

Digital Signage Networks A grouping and/or network of digital signage.

Digital Signage Software An end-to-end software solution for digital signage networks. The software, much like Scala, provides a content creation solution, a content management solution managed from a central location and playback functionality located near the display screens. The software also provides for system maintenance, health checking, advertising affidavit creation and management, automatic scheduling, playlist creation and management, meta tagging and user security.

Digital Signage Solution The complete end-to-end digital signage solution available in one software platform.

Digital Signage An industry whereby plasma display panels (PDPs), liquid crystal displays (LCDs), computer monitors and normal televisions are used to replace and enhance traditional signs. The advantages of digital signage include the rapid ability to update content, and the ability to deliver the RIGHT messages to the RIGHT audiences at the RIGHT location. Digital signage is helping to merge the industries of advertising networks and point of purchase display merchandising.

Digital Zoom This function enables the zooming in and out of images quickly whilst retaining picture quality.

D-ILA (Direct Image Light Amplification) is a technology patented by Hughes-JVC designed to improve the light output and contrast ratio of LCD screens.

Display Range The range of display sizes, such as horizontal screen dimension of a flat-panel, that can be supported on any given mount. The display size is becoming less important with the increasing size of the display diagonal and the decrease in weight.

DisplayPort A digital display interface developed by the VESA. The interface is primarily used to connect a video source to a display device such as a computer monitor, though it can also be used to transmit audio, USB, and other forms of data. Display Port can be used to transmit audio and video simultaneously. The DisplayPort signal is not directly compatible with DVI or HDMI but passive adapters can be used to adjust the signal levels and convert the connector style.

Distortion A usually undesirable variation from an intended output caused by the characteristics of a particular device.

Distribution Amplifier An amplifier used to maintain a clean noise free signal to a projector or flat panel device over significant distances. Even with good heavily shielded cables, range of video and computer signals is limited to a few dozen feet before noticeable degradation. In ceiling mount situations, where the wiring may pass along side or across electrical conduits, a distribution amp may be needed with shorter distances. Many distribution amps can also split the signal into 2 or more amplified signals for driving multiple projectors or flat panels.

Dithering Method of displaying intermediate colors that don't exist in a limited palette by using a pattern of small dots out of that palette.

DLP (Digital Light Processing) is a commercial name for a display technology from Texas Instruments (TI). The technology inside is often referred to as DMD (Digital Micro-Mirrors). It consists of an array of mirrors where each mirror represents a pixel element. For example, a high-definition DLP projector or rear projector with 1920 x 1080 pixel resolution would have over 2 million tiny mirrors. Each mirror is attached to an electronically driven hinge that controls the amount of colored light that is reflected from the mirror into the projection lens and onto a screen. Projection systems using DLP technology use 1 to 3 DMD devices.

DMD (Digital Micromirror Device). Name of the actual imaging chip used in a Texas Instruments DLP projection systems.

DNS (Domain Name System). refers to the name resolution system that allows users to locate computers on a Unix network or the Internet (TCP/IP network) by domain name. The DNS server maintains a database of domain names and their IP addresses.

Document Camera A document camera can be attached to any projector; however, there are projectors that integrate these features either as a camera on an arm that is attached to the projector or a document scanner that is built into the body of the projector.

Dolby Digital A lossy compression system to deliver sound on DVDs, ATSC and DBS broadcasts in up to 5.1 channels. Also called AC-3. See AC-3.

Dolby EX Backwards compatible system to add a sixth channel used for the middle rear playback to Dolby Digital (AC-3) making it 6.1 or 7.1 sound. 7.1 sound uses an additional center rear speaker playing back a duplicate track. Needs a Dolby EX decoder. See AC-3.

Dolby Pro Logic II Updated version of Pro Logic. Offers better performance with playing back non-encoded sources over a surround sound system with full spatial cues and fidelity.

Dolby Pro Logic An analog 4 channel surround sound system with left, right, center channels and a mono rear channel, typically duplicated across 2 speakers. Rear channel is limited to 7KHz and system stores all channels in a matrix recording on 2 discrete analog channels. Has difficulty playing back non-encoded material at full fidelity.

Dot Crawl Video artifact where little dots crawl along the borders of differing colors, particularly noticeable on graphics. Effect of composite encoding and easily removed by using s-video or component cabling. Will not disappear if the source was recorded using composite video and the artifact has been recorded.

Dot Pitch The distance between side-by-side phosphor color groups (RGB) on a direct view display that uses phosphors. The smaller the better.

Downward Tilt A downward inclination from the vertical plane (i.e. the wall); a downward slant.

DPI (Dots Per Inch) refers to the number of pixels in a single inch line.

DRM (Digital Rights Management) is the technology which maintains the protection of digital content through encryption.

Drop Ship For customers who do not have enough storage or need to have product delivered directly to a job site, select manufacturers will drop-ship orders according to customer specifications.

Dropout Missing information from a broadcast or recorded media and typically show up as white specks in an analog environment. Dropout is more pronounced with interframe compression techniques such as MPEG because the error displays until the next complete frame is drawn, otherwise known as an I-frame. This can take up to ½ a second.

DTS Digital Theater Systems. An alternate method of encoding multi-track audio used on DVDs and other sources like D-VHS. Offers less compression compared to Dolby's more common AC3 system and, arguably, better fidelity.

DTV (Digital Television). A system that uses digital signals instead of analog including the ATSC standards, DBS and digital cable.

Dual Lamp A Dual Lamp projector has two lamps where one lamp either serves as an automatic backup to the other lamp or is preprogrammed to switch at specific intervals. The benefit of this type of lamp system is it significantly reduces the probability of lamp failure during use.

Dual XD Engine Combines two of LG's exclusive XD Engines to help maximize picture quality for any kind of video content. By combining XD Engine processors, panel performance is optimized ensuring higher-quality, more realistic images.

DVI (Digital Visual Interface) represents the interface between projectors and computers through a digital connection, resulting in a clearer image than that produced through an analogue connection.

DVI (Digital Visual Interface). DVI is a standard that defines the digital interface between digital devices such as projectors, flat-screens and personal computers. For devices that support DVI, a digital-to-digital connection can be made that eliminates the conversion to analog and thereby delivers an unblemished image. It can also carry an analog signal and comes as DVI-I (integrated - analog and digital), DVI-D (digital only) and DVI-A (analog only). Dual link DVI connections add additional resolution capabilities. Digital cable lengths should not exceed 15 feet. Specifications on DVI are available at www.ddwg.org.

DVR (Digital Video Recorder). Also known as a PVR or Personal Video Recorder. A hard disk based video recorder, which usually offers long recording times and the capability to pause incoming broadcasts. When the unit has access to electronic programming guides, it can record shows on an ongoing basis as well as do keyword and genre searches.

Dynamic Range The difference between the maximum signal level and the noise floor in electronic equipment, represented in dB. (See Decibel)

Dynamic Range The ratio between the highest and lowest levels a device can perform. For a video device it is a measure of contrast ratio. For an audio device it is usually stated in dB.

E **Echo Cancellation** The built-in process which eliminates any acoustic echo in a video conferencing environment.

Eco-Mode Technology A money-saving, highly efficient feature that doubles lamp life and produces a quieter operation.

Edge Blending When more than one projector is used side by side to project wider content into a seamless wide image, Edge Blending technology can be used. Edge blending can be done in the projector or with an external video processor. Edge blending works to remove the bright visible band that occurs when two images overlap. Edge blending will gradually fade out one of the images in the banded zone while the adjacent image is gradually faded up.

Edge Enhancement A technique used to increase apparent resolution by increasing contrast around object edges. Usually counterproductive with already high-resolution sources and can become a source of image distortion.

Electronic Whiteboard Looks like a regular conference-room whiteboard except that it captures notes and drawings made on it electronically that can be sent remotely for teleconferencing or stored digitally for future reference.

Energy Star Energy Star Certified consumer electronics yield savings of about 1/3 on home energy bills, with similar savings in greenhouse gas emissions

Escutcheon Ring A small device that covers a hole in a suspended/false ceiling tile creating a smooth transition.

Ethernet This is a baseband LAN specification that operates at 10Mbps.

F False Ceiling Also known as suspended ceiling or dropped ceiling. Typically products are installed above the false ceiling in a classroom or conference room. Also referred to as Plenum Space if the Above-the-ceiling is used as an air conditioning return. Full and half size adapter plates may be used to mount projectors in a false ceiling tile space

False Contouring Also known as solarization or posterization. False contouring occurs when color shows as distinct contours or edges where there shouldn't be any. This occurs when colors that should flow naturally between shades or brightnesses do so discretely in clearly defined bands. The visual effect is the look of a topographical map instead of a video image.

FCC (Federal Communications Commission). U.S. government agency responsible to Congress that regulates interstate and international communications via radio, television, wire, satellite and cable. Commenced operations in 1934.

Feedback occurs when the output of a device returns as the input of the same device. A microphone recording the sound from a speaker which is playing back the same microphone as a source is an instance where this can occur. Signals get replicated multiple times and if they are amplified, the amplification gets repeated as well. This is how room noise turns into a loud screech if microphones aren't placed properly; however, this can occur to any electrical signal.

Fiber-Optic A thin plastic or glass-fiber cable that carries digital audio signals in an optical format via pulses of light. Uses a small, square plastic male connector on each end. Most modern AV receivers and DVD players have both Toslink optical digital as well as coaxial digital audio connectors. No difference in sound quality between optical or coaxial digital connections, but optical links are not susceptible to hum or interference.

Field In NTSC, each frame of video is made up of 525 lines. Two 262.5 horizontal line fields equal one frame. Each field represents either the even or the odd lines of a complete frame. A scanning system that uses even/odd field pairs is defined as an interlaced scanning system. A field equals one-half of a complete television scanning cycle (1/60 of a second NTSC; 1/50 of a second Pal/SECAM). When interlaced, two fields combine to make one video frame with a scanning cycle of 1/30 of a second at a rate of 1/30 of a second in NTSC. **File Format** The structure of a file that defines the way it is stored and used. Generally, a file-type extension to the file name identifies the format. For example, some common bitmap graphics file formats supported by Scala are BMP, GIF, TIF, PCX, and JPG. Common animation formats are AVI, FLI, FLC and MPG. A common audio file format is WAV.

Fill Rate Given as a percentage, this characteristic indicates how smooth an image will look viewing a particular display. An imaging system with a low fill rate will exhibit a screen door pattern in its images.

Focal Length This is the distance from the surface of a lens to its focal point.

Focus A projector's focus defines minimum and maximum projection distances. Most projectors have both auto and manual focus functionality.

Footprint Space required to house an equipment rack or device.

Form Factor A general description of a projector or flat panel's size and shape. For example, a light projector with a small case can be said to have a small form factor, and would be good for mobile presentation. Similarly, a flat panel that is slim and wall mountable would be considered to have a small form factor.

Frame Rate The frequency at which complete images are generated. For non-interlaced signals, the frame rate is identical to the vertical frequency. For interlaced signals, the frame rate (also known as field rate) is one half of vertical frequency.

Frame A complete TV picture consisting of two interlaced fields. The NTSC system scans 525 lines with an electron beam and occurs at a frequency of once every 1/30 of a second. (See Field, Interlaced)

Frequency Response Measures the frequencies a component is capable of reproducing and how well it does it. Usually stated as a set of frequencies with a variance measured in decibels (dB). The ideal is to have no variance or flat response, along with a wide range of frequencies.

Front Projection A system where the projector sits in front of the screen with the image getting reflected back to the audience.

FTP Server A computer that can receive requests for an FTP link from a client machine, or the software on that machine that allows it to do so. IIS includes FTP server capability. Also called an FTP host. See also IIS.

Full HD 3D A projector that is Full HD 3D compatible can use any of the 3D formats enabled in the HDMI 1.4 3D specification: frame packing, top/bottom, or side-by-side. These projectors are compatible with the 1080p 3D signal from a Blu-ray player, set-top box, or other HDMI 1.4 device, but may not be compatible with 120Hz frame sequential 3D from a computer

Full On/Off Contrast The ratio between white and black. The larger the contrast ratio the greater the ability of a projector or flat panel to show subtle color details and tolerate extraneous room light. There are two methods used: 1) Full On/Off contrast measures the ratio of the light output of an all-white image (full on) and the light output of an all-black (full off) image. 2) ANSI contrast is measured with a pattern of 16 alternating black and white rectangles. The average light output from the white rectangles is divided by the average light output of the black rectangles to determine the ANSI contrast ratio. When comparing contrast ratio, make sure you are comparing the same type of contrast. Full On/Off contrast will always be a larger number than ANSI contrast for a given product.

FXL Most popular halogen lamp used in low cost projectors. Metal halide and UHP lamps are used in the medium and higher priced portable projectors.

G Gain or Screen Gain This is a measure of reflectivity of light compared to a screen coated with magnesium carbonate or titanium dioxide, when the measurement is taken for light targeted and reflected perpendicular to the screen. Titanium dioxide is a bright white color, but greater gains can be accomplished with materials that reflect more of the light parallel to projection axis and less off-axis.

Gamma Correction Adjustment to gamma or how gray levels between black and white are displayed as the eye is sensitive to these in a logarithmic manner. For example, good gamma correction allows subtle shadow detail in a dark image to be easily perceived.

Gamma Relationship between input video voltage and output brightness. Determines how mid-tones appear as eye sensitivity is non-linear and display devices use different methods to account for this as well as their own display characteristics.

Ghosting A faint duplicate image, usually offset from primary image. A trail left by a moving object on a slow LCD panel. Can be caused by multipath, which is a delayed, attenuated duplicate signal bounced off an object to an antenna or other interference.

GIF (Graphics Interchange Format). A graphics format in which images are made up of pixels and can be downloaded quickly.

Gray Scale A table of shading devoid of color, progressing from black to white. The number of discernible gray levels defines the color resolution of the display device and is used to evaluate color acuity and contrast.

H.264 An industry standard for video compression, the process of converting digital video into a format that takes up less capacity when it is stored or transmitted.

Hanging Dots Artifact of composite video where stationary dots exist where two colors meet. Caused by interference between main video signal and color carrier. See dot crawl.

HDCP (High-bandwidth Digital Content Protection). A method for protecting copyrighted digital content that uses the DVI (Digital Visual Interface) or HDMI (High-Definition Multimedia Interface, previously known as DVI-CE) by encrypting its transmission between the video source such as a set-top box, DVD player, or computer and the digital display device such as a projector, monitor or television. To view digital HDCP protected content, both the sending and receiving device must support HDCP.

H HDMI (High Definition Multimedia Interface). An uncompressed, all-digital audio/video interface that supports audio/video sources such as a set-top box, DVD player, AV receiver, and video monitors such as a digital projector or digital television (DTV). HDMI is backward compatible with DVI 1.0 specification and supports HDCP. HDMI supports standard, enhanced, or high-definition video, plus multi-channel digital audio, and interactive controls on a single cable. It transmits all ATSC (Advanced Television Systems Committee) HDTV standards and supports 8-channel digital audio. First product releases using HDMI occurred in 2003.

HDTV Ready A television that supports 720p or 1080i or higher resolutions and does not have a built-in HDTV tuner for off-air reception of HD signals from a special antenna. To view cable and satellite HDTV programming, a cable set-top-box or satellite receiver is required.

HDTV (High-Definition Television). Generic term that indicates a higher resolution format than previous standards. At present, denotes anything higher than a 480p signal. Most common formats are 720p, 1080i and 1080p.

High Color A setting describing graphics that have 16-bit color, providing up to approximately 65,000 colors in the image.

High Gain Screen A screen that uses one of many methods to collect light and reflect it back to the audience, which dramatically increases the brightness of the image over a white wall or semi-matte screen. Technologies used include curved screens, special metal foil screens (some polarized), and certain glass bead screens. High gain screens achieve higher brightness by directing more of the reflected light towards the center of the screen.

Horizontal Blanking (Retrace). The process of bringing the electron beam in a CRT back to the left side of the screen after a left to right line has been traced on the screen. The beam is shut off (blanked), during the period of retrace. About 83% of the total horizontal line time is spent writing the line. The remaining 17% is spent bringing the beam back to the left side; retrace, before starting the next line. (See Field, Frame, Interlaced, Waveform Monitor)

Horizontal Lens Shift The purpose of Lens Shift is to eliminate keystone and provide greater flexibility in the placement of the projector relative to the screen. Lens shift may be a manual adjustment or motorized. Horizontal lens shift typically allows the projector to be placed anywhere between right and left edge of the projection screen and may also be used to geometrically align images when stacking projectors. Vertical lens shift is also available on some projectors.

Horizontal Resolution The ability of a system to reproduce closely spaced alternating black and white vertical lines of detail across the screen. The number of alternating black and white lines is divided by the aspect ratio to make comparisons between horizontal and vertical resolution easier. This number is usually expressed as TV lines per picture height. (See Aspect Ratio)

Horizontal Scan Rate A figure that describes the speed of the electron beam that creates the scan lines of a video or computer display. The horizontal scan rate for standard NTSC/PAL video is approximately 15 kHz. For VGA displays and above, scan rates of 31.5 kHz or more are used.

Hospitality A large vertical market which includes hotels, resorts, restaurants and casinos.

Hot Spot The part of a displayed image which is unevenly illuminated, usually a bright area in the center. An unwanted effect especially with whiteboards.

HTML (Hypertext Markup Language) HTML is the language used to create Web pages for display in Web Browsers. HTML can be created directly with text editors or Web publishing programs, such as Dream Weaver, or it can be the output of other programs that make dynamic webpages on the fly. When you select "view source" from your Web browser, the code that you are viewing is HTML.

HTTP (Hypertext Transfer Protocol). The internet protocol used to deliver information over the web.

Hue The parameter of color that allows us to distinguish between colors.

I Image Processing Enhancing and manipulating an image, such as by adjusting its size, resolution, or color palette.

Infra-Red Remote (IR) remote control transmits in the spectrum of infra-red light, such as a television remote. Unlike RF remotes, IR remotes must point at the receiver (line of sight) or reflect the IR from the screen to the receiver. Typical range is limited to 30 feet including the distance to and from reflected surfaces. For example, if you are controlling a projector and you point the remote at the screen which is 12 feet from you and the projector is 10 feet from the screen, then the total distance is 22 feet. Unlike RF remotes, IR remotes must have a clear path or a clear reflected path to the IR receiver to operate. Most projectors have an IR sensor in both the front and rear of the projector, whereas, flat-panels generally have a single IR sensor in the front of the unit. When working at or near the maximum distance, pointing right at the receiver will give better results.

Interactive Projector Interactive projectors became popular in 2010 and come in many variations. This technology encompasses any solution that enables active participation by the user with the projected content, rather than just the passive viewing of content. Typically, the presenter is allowed to interact with either the projected image, the projector, or in some cases another device, using either an electronic pen, a mechanical pen or even a finger. These Interactive Projectors essentially create an electronic whiteboard on any surface where the image is projected allowing the presenter to interact with the projected image using a stylus that may be electronic or mechanical. Some interactive projectors allow user generated information to be captured and replayed, printed, or copied with or without the original projected image.

Interlace A process used to refresh video displays and some computer displays that alternately scans every other horizontal scan line in the display. Interlaced displays often flicker, especially when showing static images containing narrow horizontal lines.

Interlace A technique of improving the picture quality of a video signal without consuming extra bandwidth. Interlaced video was designed for display on CRT televisions.

Interlaced A process where a video image is delivered in two fields each containing half the video image rather than a single frame that contains the entire image. The first field contains all the odd lines and the second field contains all the even lines. For example, each 480i frame is made up of two fields of 263 and 262 lines of resolution and updated at 60Hz. 480 denotes the active picture area; however, the total frame size is actually 525 lines. 480i and 1080i are interlaced signals whereas 720p is a progressive signal where each video image is delivered in a single frame. Interlaced video was introduced with the first televisions because of bandwidth limitations.

International Power Supply A unit that can operate under an international selection of power requirements. The specs of units vary widely, but the minimum is 105-230 volts, and 50-60 cycles AC (alternating current). If you see a specification like 110v, 220v instead of a range, those ratings are usually +/- a given percent such as 10%. Most units are "self-switching" they will automatically switch to whatever power source you plug it into. Others will have to be switched (internally or externally to accommodate a difference voltage or cycle range).

Internet Protocol (IP) These protocols are used to communicate across interconnected networks and can be used for common applications such as e-mail, terminal emulation and file transfer.

Intranet An internal computer communications network.

Invert Image Invert image flips the image from top to bottom, to compensate for ceiling mounting a projector upside down. Projectors typically ceiling-mount upside down, because most have a built-in offset that allows you to mount the screen at a comfortable height, yet still project an image without tilting the projector and causing keystone distortion.

ISF (Imaging Science Foundation). Organization that trains and accredits display calibration technicians as well as certifies display hardware. Designs standard testing and calibration procedures and tools. International organization within which governments and the private sector coordinate global telecom networks and services.

J Jaggy The stair-step or saw-tooth effect seen on lines that are not horizontal or vertical or the edge of objects in digital displays. Also known as aliasing. Smoothing and anti-aliasing techniques can reduce the effect of aliasing.

Jitter Abrupt variations in signal amplitude or timing that cause reproduction instability in audio, video and data. Usually caused by bandwidth limitations or impedance termination issues that can sometimes be caused by the cable and/or connections you are using. Power supplies can also be a source of this problem.

Judder Apparent stutter of on-screen movement. Motion judder in film is due to the fact that the 24 frame/second sampling rate is too slow to resolve camera panning motion. Judder is also caused by 3:2 pull-down where movie frames are on screen for differing times due to frame rate translations. Also occurs on PAL to NTSC conversions.

K Kelvin A temperature measurement scale where 0° Kelvin (0° K) is equal to absolute zero, the temperature at which all molecular movement ceases. One degree of Kelvin is equal to 1 degree of Celsius. The color temperature of large image devices is measured in Kelvin. The higher the temperature, the bluer the light.

Kensington Lock A security device found on projectors and other electronic equipment that allows the equipment to be secured by key or combination to another object using a rubberized cable.

Kerning An adjustment of the normal space between certain combinations of characters, to eliminate excess space.

Key Frame A video frame that contains all the data required to produce an image without any reference to the previous frames.

Keystone Correction Makes a projected image rectangular. This can be accomplished by positioning the projector to be perpendicular to the screen. Since this is not always possible, most projectors are equipped with keystone correction that allows the image to be keystone corrected (made rectangular) by adjusting optics, making mechanical adjustments, or applying digital scaling to the image. Keystone correction can be one or two dimensional and manual or automatic depending on the projector and the manufacturer. Be aware that digital scaling will introduce some artifacts that are more evident when viewing small text and less evident in presentation type material or video.

L LAN (Local Area Network) A network of computers sharing a single server or servers in a single location, typically in an office or building. See also WAN.

Latency The time between a device being requested to do something and the start of the device actually doing it. It's a measurement usually used for LCDs where the shorter the latency the better. NSTC requires a latency of no more than 16ms in order to update the screen in time without leaving a ghost of the previous image.

Lateral Shift This feature can apply to flat-panels or projectors and is a function of most flat-panel mounts created by Premier Mounts. Lateral shift allows the TV to slide left or right for perfect TV placement, even with off-center studs. It has the same function for projector mounts. It allows the user to achieve perfect placement of the projector should it be mounted a too far to the left or right.

LCD (Liquid Crystal Display). A display device for generating color images using a matrix of LCD pixel elements. Each pixel element consists of 3 sub-pixels and an RGB color filter of red (R), green (G), and blue (B). By controlling the voltage to each sub-pixel of an LCD, each cluster of RGB pixels can create a full spectrum of colored light. LCDs are used in flat-screen displays, cameras and notebook computers to name a few. Nearly every projector made with LCD technology uses 3 separate LCDs, one each for red, green and blue. Light from the projector lamp is separated into RGB with a set of dichroic mirrors. The three light beams (RGB) are passed through separate LCDs and recombined to project a color image.

LCoS (Liquid Crystal on Silicon). Type of LCD panel that reflects light as opposed to blocking it. Usually offers a comparatively high fill rate creating a smooth image but generally has difficulty giving a high contrast ratio.

LED Lamp A type of projector lamp that uses one or more LEDs as its light source. The benefit of LED lamps is their long life.

LED (Light Emitting Diode) Diodes are electronic components that let electricity pass in only one direction. Light emitting diodes are diodes that emit visible light when electricity is applied, similar to a light bulb. When many LEDs are side-by-side, they can create pictures, such as the scrolling red LED signs found everywhere. LED displays are often confused with LCDs (liquid crystal displays), but they are different technologies.

Lens Shift The purpose of “lens shift” is to eliminate keystone correction and provide greater flexibility in the placement of the projector relative to the screen or the alignment of stacked projectors. This is accomplished by allowing the optical lens to be physically shifted vertically and/or horizontally. These adjustments may be manual or motorized depending on the projector. See horizontal lens shift and vertical lens shift for typical adjustment ranges.

Letterbox A method of preserving the originally aspect ratio of a production when presented on a projector with a different aspect ratio. This is accomplished by showing the full image and black where no image exists.

Lock-It™ Security Hardware Special security screws and barrels designed to deter removal of flat-panels or projectors. The screws can only be installed or removed using the security allen wrench usually included in the hardware pack.

Long Throw Lens Allows greater distance between the projector and the screen while being able to maintain the image size and brightness of a shorter throw lens for any given projector. Depending on the room, a long throw lens may be required due to mounting constraints nearer the projected image.

Loophthrough An output on a projector allowing you to connect other monitors or projectors to display the same image. It is commonly used when presenting, so the speaker is able to look at a computer monitor in front of them while at the same time the image is being projected onto another screen thus allowing the person to always face the audience.

Lossless Compression The process of compressing data in which information is arranged more concisely and restored to its original state upon decompression.

Lumen A measurement unit of total illumination. Typically a 100-watt light bulb outputs 1700 lumens over a wide area. Projector light output is measured in ANSI lumens. A projector with a higher lumen number will produce a brighter image for a given image size. See ANSI Lumens.

Luminance The black and white part of a video signal. It is signified by the letter Y. Signals with a separated luminance and color signal avoid interference. This interference can result in dot crawl among other image artifacts.

Lux A unit of measure of incident light (not reflected from the scene). The lux rating of a camera is usually, loosely used to determine if the camera is capable of producing an image in low light situations. The lower the lux specifications, the lower the required light level needed to produce an image. Generally, the lux rating of a camera is listed in the specifications as “Minimum Illumination”. The Minimum Illumination specification lists the lux rating as well as the f/ Stop and gain settings needed to achieve the lowest lux possible on that particular camera.

MAC Address (Media Access Control Address). A hard-coded interface identification used by layer 2 devices (switch or bridge) for proper forwarding of frames between computers on a network.

Marquee A permanent roof-like structure or canopy of rigid materials supported by and extending from the facade of a building frequently used to display signage. (2) On the World Wide Web, the term marquee is often used to describe scrolling text effects created with the HTML marquee tag (Microsoft Internet Explorer-specific), Flash, JavaScript, and Java Applets.

Maximum Distance Sometimes used to refer to the distance from the screen that a projector can focus the image. Most of the time, it is the manufacturer's opinion of how far from a screen the projector can be to cast an image that is useable (bright enough) in a fully darkened room. Consult the Projection Calculator for guidance on proper placement of a projector for a given screen and content.

Maximum Image Size The largest image a projector can reasonably throw in a darkened room. Consult the Projection Calculator for guidance on proper placement of a projector for a given screen and content.

Maximum Resolution Maximum Resolution refers to the highest resolution that a given display device can support. If the Maximum Resolution exceeds the Native Resolution, the image is usually scaled to match or approximate the Native Resolution of the projector. Some display devices allow pan and scan where rather than scaling the image, the display device allows you to use the native resolution of the display to view portions of the higher resolution image. Scaling reduces the image resolution and produces some artifacts in the image that are more apparent when viewing text than graphics or video.

MHz The abbreviation for megahertz, or millions of cycles per second.

Microperforated Screen A screen which can have a speaker mounted to the rear of it.

Minimum Display The closest position that a projector can focus an image onto a screen.

Multi-Lamp Some projectors use multiple lamps that can be controlled by the user to increase or decrease the brightness of the image. This lamp redundancy significantly minimizes the risk of total lamp failure during use. Another type of multi-lamp system is a Dual Lamp. With a dual lamp projector one lamp can serve as a backup to the other lamp in the event of failure or the lamps can be programmed to switch at specific intervals.

Native Aspect Ratio Nearly every projector or display today will support multiple aspect ratios; however, each manufacturer must decide who their intended audience is and optimize the projector for that audience. This means each device has a native aspect ratio that is optimized for specific viewing material. Images shown in native aspect ratio will utilize the entire resolution of the display and achieve maximum brightness. Images shown in other than native aspect ratio will always have less resolution and less brightness than images shown in native aspect ratio.

Native Resolution Native Resolution is the number of physical pixels in a display device. For example, an XGA display has a native resolution of 1024 physical pixels of resolution horizontally and 768 pixels vertically or 786,432 total pixels. See Maximum Resolution.

Negative Gain Screen A screen with a gain rating of under 1 which actually reduces the amount of light reflected back from a projected image. Usually gray, they are used to increase apparent contrast by lowering the black level.

Noise An unwanted random signal.

Non-Interlace Also known as progressive scan. Describes how video frames are drawn which, in this case, is completely from top to bottom at every screen update. See Interlaced.

NTSC (National Television Standards Committee). Established the first color TV standard in 1953 and is the North American standard for video and broadcasting. Also used in the Caribbean, South Korea, Japan and South America. A 30 fps signal with 525 lines of resolution of which 480 to 483 are viewable. Transmitted via a 6MHz channel.

OEM (Original Equipment Manufacturer). A company that gathers components from other manufacturers and sells under their own name. An OEM version of a product is supported by the seller, not the actual manufacturer.

OLED (Organic Light Emitting Diode). A self-illuminating, energy-efficient, direct-view imaging system. Uses an organic film sandwiched between 2 transparent electrodes.

Optical Digital Cable Transfers digital signals as light pulses. Also called fiber-optic cable and is commonly used to send surround sound from a player to a receiver/decoder.

Optional Lenses Typically the less expensive projectors come with a built-in lens that is designed to serve a specific type of setting or application. A projector that supports optional lenses can address a wide variety of installation needs. This gives a projector great flexibility at an incremental cost.

OptiSync Digital/Analog Inputs ViewSonic expands your connectivity with multi-mode input technology that supports both digital (DVI) and analog (VGA) signals for ultimate compatibility and configuration flexibility.

OSD (On Screen Display). The menu that enables the user to access and adjust a monitor's settings, including brightness, image position, and color saturation.

OSHA An agency of the United States Department of Labor. Its mission is to prevent work-related injuries, illnesses and occupational fatalities by issuing and enforcing rules called standards for workplace safety and health.

OSHPD California State Department that assures the safety of buildings used in providing health care. OSHPD certification is also known as seismic or earthquake safe up to an earthquake of magnitude greater than or equal to 6.5. This includes establishing building standards that govern construction of, or changes to, these types of facilities. OSHPD also observes construction in progress to ensure compliance with the approved plans and specifications. Products that are OSHPD approved also comply with DSA requirements for seismic safety.

Overhead Projector A type of projector which produces an image on screen by transmitting light through a transparent piece of clear plastic or acetate cell. The transparent sheet with a graph or photo is placed on large lens with a light source underneath. This focuses the image into a lens which projects the image onto a screen. These projectors have been replaced by document cameras.

Oversampling Multiplies outgoing signal samples in order to more easily filter out aliased sounds but doesn't create fidelity that isn't there to begin with.

Overscan Given as a percentage or pixel count, the amount that a particular display device crops the edges of an incoming video signal. This is done to ensure the image area contains only picture information.

P.O.P. (Point-of-purchase) The term point-of-purchase usually refers to the industry concerned with customer behavior at the location of the purchase decision. POP is considered one of the most important aspects of advertising and merchandising. It is believed that the most critical time to influence buyer behavior is when they have money in hand.

PAL (Phase Alternating Line). Broadcast standard developed in Germany in 1963 and adopted in 1967. Color system mainly used in Europe (except France), South America, Africa, Oceania and China. PAL uses 625 scan lines with a 25-frame/50-field per second rate. (See Field, NTSC, SECAM)

PanaBlack (Panasonic) (Monitor Feature). A PanaBlack picture tube improves contrast, color reproduction and clarity of detail. A dark black screen glass provides up to a 40% increase in contrast, compared to conventional CRT's, by decreasing the amount of ambient light that passes through the screen and reflects back off of the phosphors.

Pan-and-Scan A method to fit source material of a different resolution or aspect ratio onto another. Sometimes used with computer input when the input resolution exceeds the resolution of the display device. Used extensively for broadcast and DVDs, it simply crops the sides of wide-screen material and the transfer operator chooses the best part of the frame to show. Often an electronic camera pan is used to change the area being shown. This is used when characters are talking to each other but one is off screen due to cropping and they become the focus of the shot.

PaneLock™ The PaneLock™ Security System works with Premier Mounts' CTM and PCM Series Mounts. This patent-pending device prevents the removal of a flat-panel display from the mounting plate. The integrated theft-resistant clips latch the mounting bracket arms to the rods on the wall plate. A security screw then locks the pieces in place.

PC-3D Ready A projector that is PC 3D Ready can accept a 120Hz frame-sequential 3D signal from a computer via either NVIDIA's 3D Vision system or one of several educational software suites. These projectors are not compatible with the HDMI 1.4 3D specification used on 3D Blu-ray players and set-top boxes. This type of projector is also referred to as 3D Ready.

PDF (Portable Document Format). Developed by Adobe Systems to capture and deliver most document types without changing the format or recreating it within another application. Acrobat Reader is required to view a PDF document.

Phosphor A direct-view, flat-panel display that uses ionized gas to emit ultraviolet light that then excites phosphors. Plasma is a state of matter like solid, gas or liquid. Plasma screens are challenged by latency issues without a priming voltage, which causes manufacturers to leave a voltage running across a cell in order for it to change state quickly enough to update a picture. This tends to boost black levels as every pixel is partially on all the time. This is why plasma contrast ratios aren't as high as CRT although still very good. Also, because plasma uses phosphors it is susceptible to possible burn-in. Plasma is subject to performance issues at higher altitudes of operation such as fan buzzing and increased power consumption.

Pico Projector A marketing term to describe a small hand held projector that can fit in your pocket. A pico projector can be a stand-alone device that connects to a computer or other video device or a projection module that is integrated with a phone, portable computer, MP3 player or other small device.

PIP (Picture-In-Picture). The ability to project a secondary image (from another source such as a DVD, VCR or PC) within the main projection image.

Pitch The rotational axis of a projector mount. Taken from the aviation industry, pitch on a projector refers to the axis of rotation that would move the image of a projector up and down on a screen. Roll refers to the rotation around the axis that will rotate the image on a screen. Yaw refers to the rotation around the axis that will move the image on a screen left or right.

Pivot Refers to the right and left or horizontal motion of a flat-panel mounting head attached to an articulating or swing-out arm.

Pixel A small dot which represents a single element of a display. The more pixels an image has, the more defined the image will appear to the viewer.

Pixelation If compression by DVD and digital channels is not performed with care, the image looks rougher and coarser than it should, with a grainy effect over parts of the picture.

Plasma Display Panel (PDP) A direct view display made up of an array of cells, known as pixels, which are composed of three subpixels, corresponding to the colors red, green and blue. Gas in the plasma state is used to react with phosphors in each subpixel to produce colored light (red, green or blue) from a phosphor in each subpixel. Plasma displays are thinner than cathode ray tube (CRT) displays and brighter than liquid crystal displays (LCD). Most of these heavy and expensive displays have been replaced by less expensive and much lighter LCD displays.

Plasma Just as solids, liquids and gases are states of matter, plasma is a state of matter. Specifically, plasma is ionized gas. That is, gas that has been given an electrical charge by being stripped of electrons. Such ionized gas is the most abundant observable form of matter in the universe, being a main ingredient in stars and nebulous. And as if we're not already seeing enough of the stuff, it's also what goes inside those flat panel displays called "plasmas" that are popping up all around us. Why? Because when you apply an electromagnetic field to plasma, it glows, making for a nice, vibrant TV screen, computer monitor, or digital signage.

PNG The file-type extension for images in the PNG (pronounced "ping") format. PNG is a relatively new and advanced format, featuring both compression and extensibility.

Power Zoom A zoom lens that is driven by a motor and controlled from the projector's control panel and/or remote control.

Pro:Idiom LG's Pro:Idiom® system's high-quality security unlocks access to premium content availability to help assure rapid, broad deployment of HDTV and other high value digital content. By using this embedded approach, security is provided and helps eliminate the possibility of customers tampering with or removing needed components.

Progressive Scan A display mode in which all the horizontal lines of an image are displayed at one time in a single frame, unlike an interlaced scan in which a frame consists of two separate fields with the first field consisting of odd horizontal lines and the second field even horizontal lines. Progressive scan is used by projectors, computer monitors, HDTV systems, and some digital camcorders. Progressive Scan requires a faster horizontal scan frequency than interlaced images of the same resolution.

Project Registration Project registration refers to the process of submitting a bid for a given project. Dealers benefit from partnering with the manufacturer through special pricing, discounts, and technical support. This allows the dealer to provide more opportunities, build product expertise and grow profitably. Project registration provides a competitive advantage and can help increase sales and improve margin opportunities.

Projector Pitch The rotational axis of a projector mount. Taken from the aviation industry, pitch on a projector refers to the axis of rotation that would move the image of a projector up and down on a screen. Roll refers to the rotation around the axis that will rotate the image on a screen. Yaw refers to the rotation around the axis that will move the image on a screen left or right.

Projector Roll Taken from the aviation industry, the roll on a projector refers to the axis of rotation that would rotate the image of a projector on a screen. Yaw refers to the rotation around the axis that will move the image on a screen left or right, while pitch refers to the axis of rotation that would move the image of a projector up and down on a screen.

Projector Stacker Allows installation of multiple projectors while permitting maximum ventilation.

Projector A projector is a device that integrates a light source, an optics system, electronics and display(s) for the purpose of projecting an image from a computer or video device onto a wall or screen for large image viewing. These devices attach to a computer or video device as you would connect a monitor or television.

Proxy Server A server on a network between client software and another service that intercepts requests to the server, forwarding to other servers if necessary.

QAM (Quadrature Amplitude Modulation). A type of digital modulation technique used to carry signals in digital cable and cable modems which usually has a number before it denoting its bit density such as 64-QAM. Cable is equivalent to 8VSB. A QAM tuner will allow you to see digital cable channels without a cable box but only those that are broadcast without restriction. A CableCARD® will add support for restricted channels.

QXGA A display resolution of 2048 horizontal pixels by 1536 vertical pixels giving a total display resolution of 3,145,728 pixels. A QXGA display has 4 times the resolution of an XGA display.

RAID (Redundant Array of Independent Disks). A multi-drive storage facility providing high-performance and redundant hardware with protection against failure.

Rainbow Effect An image anomaly that can be seen by a small percentage of people when viewing a single chip DLP™ front or rear projection system. The anomaly appears as a color breakup at the edge of objects when the eye transitions rapidly between light and dark areas of the image. The problem is characteristic of sequential color systems with low refresh rates.

Rear Screen Projection A presentation system in which the image is projected through a translucent screen toward the audience. It involves projecting an image through a translucent screen material for viewing from the opposite side, as opposed to front projection.

Refresh Rate The speed at which a display updates its picture given in Hz.

Rental & Staging The rental and staging industry typically work with special events, tradeshow, concerts and other brief productions. These types of events require products that are modular, portable, flexible and strong.

Residential Installations that can range depending on customer need. These can be as small as a installing a single flat-panel, or as large integrating an entire home theater.

Resolution Measures how clear and detailed an image is the higher the resolution the better the picture quality. Resolution is expressed as the number of horizontal and vertical lines.

Response Time A term associated with LCD technology, this is the time an individual pixel takes to turn fully on then off. There is a rising and falling time which gives the overall figure.

RF Radio Frequency Interference.

RGB (Red, Green and Blue). A component signal representing each color separately. Sync signals can be sent on green or sent separately as a composite signal or dual H / V signals (Horizontal sync/Vertical sync). Very common signal for analog computer displays. They are also the primary colors of light, not to be confused with Cyan, Magenta, and Yellow, the primary pigments.

RMA The Return Material Authorization, is the process of returning a product to the manufacturer for repair or replacement.

Roll Taken from the aviation industry, the roll on a projector refers to the axis of rotation that would rotate the image of a projector on a screen. Yaw refers to the rotation around the axis that will move the image on a screen left or right, while pitch refers to the axis of rotation that would move the image of a projector up and down on a screen.

Router A dedicated computer hardware or software package that manages the connection between networks.

SaaS (Typically pronounced 'sass') Stands for Software as a Service. SaaS is a model of software deployment where an application is hosted as a service provided to customers across the Internet. By eliminating the need to install and run the application on the customer's own computer, SaaS alleviates the customer's burden of software maintenance, ongoing operation, and support.

Saturation A measure of color intensity. In the absence of saturation the color hue is a shade of grey. A highly saturated hue has a vivid, intense color, while a less saturated hue appears more muted and grey.

Scaler A device that deinterlaces an image, then scales it to the native resolution of the output device. It can significantly enhance picture quality, particularly on plasma screens and projectors.

Scan Converter In a projector, this converts a digital signal from a computer to a video signal for broadcast on a video projector or TV monitor.

Scan Rate The line drawing speed of a display, usually given in kHz. A standard definition TV has a scan rate of 15.75 kHz which when you divide by 525 scan lines, gives a horizontal refresh rate of 30 fps or Hz.

Screen Gain As it applies to projectors, gain is the measurement of a projection screen's light reflectance with unity gain being one. A high gain screen will reflect more light along a narrower path than lower gain screen. Screen gains under one use a gray screen to absorb ambient light to help maintain contrast ratios.

Screendoor Effect An image distortion caused by digital imagers with a low fill rate. Looks like the picture is seen through a screen door with thin vertical and horizontal black lines and is commonly noticeable on lower resolution LCD displays. An LCD display fitted with a microlens array helps reduce this problem.

SDTV (Standard Definition Television). A class of digital television (DTV) that refers to the 480i format. 480i is an interlaced video format that produces a full frame of 480 lines of video in two successive fields. The first field includes the odd lines and the second field includes the even lines. Sometimes used to refer to regular television.

Ship Weight Also referred to as actual weight, which is the gross weight of a freight as measured by a weight scale, including all packaging, wrapping, and boxing, but not the shipping container.

Short Throw Lens A lens designed to project a large image from a short distance.

Short Throw Wall Mount Projector A projector that mounts on a wall adjacent to the projection screen. The throw distance is generally just a few inches and allows people to move freely through the room without concern of intercepting the light path.

Skew A signal distortion where one part of a signal arrives at a different time than another and causes color fringes to the sides of an object.

SMIL (Synchronised Multimedia Integration Language). Enables website creators define and synchronize multimedia events for presentation and interaction.

SVGA (Super Video Graphics Array). A display resolution measuring 800 pixels horizontally by 600 pixels vertically giving a total display resolution of 480,000 individual pixels. SVGA has a 4:3 aspect ratio.

S-Video A video transmission standard that uses a 4 pin mini-DIN connector to send video information on two signal wires called luminance (brightness, Y) and chrominance (color, C). S-Video is also referred to as Y/C. Considered a higher quality video source than composite video.

Swingout Flat-Panel Mounts Also referred to as articulating mounts. These mounts have single or multi-jointed arms, that allow the mounting head to swingout in a horizontal motion.

Swivel Refers to the right and left of the mounting plate attached that attaches the flat-panel on the end of the articulating swingout arm.

SXGA A display resolution measuring 1280 pixels horizontally by 1024 pixels vertically giving a total display resolution of 1,310,720 individual pixels. SXGA has a 5:4 aspect ratio.

Tab-Tensioned A projection screen type that has connections on all sides of the screen material, which pull it taut in order to have a flat screen surface.

TCP/IP A networking protocol designed for flexible, high-speed communications, used for LANs and the Internet.

Throw Distance The length of the projection beam necessary for a particular projector to produce an image of a specified size. This display size is typically specified by the end user and the purpose of the display. Based on the display size the system designer will specify the projector that should be used for this purpose based on screen aspect ratio, image brightness and contrast, and any other special projector features or cost evaluation criteria. Once the project projector has been selected, the designer can determine the distance of the projector to the display surface, which in turn will dictate the type of wall mount to select. Premier Mounts offers the UNI line of short-throw projector wall mounts available in three lengths. Each model is adjustable within its own range to enable various screen sizes and fine-tuning.

THX (Tom Holman's eXperiment). A certification for audio equipment and installation done to a standard set by THX Ltd, a company owned by George Lucas. Usually geared towards audio playback for video and cinema.

Tilt Referred to as vertical (upward or downward) motion of a mounting head along Y-axis of a mount.

Toggler Bolt A fastener for hanging objects on hollow walls such as drywall. Toggle bolts have wings that open inside a hollow wall, bracing against it to hold the fastener securely. The wings are much larger than the bolt they are attached to. This spreads the weight of the secured item over a larger area, increasing the weight that can be secured compared to a regular bolt.

Touch Screen Also called a touch-sensitive screen, a computer monitor attachment that can sense the location at which a viewer touches the screen to respond to a question or prompt in a script.

Turnbuckle Also known as a stretching screw or bottle screw, a turnbuckle is a device for adjusting the tension or length of ropes, cables, tie rods and other tensioning systems. It normally consists of two threaded eyelets, one screwed into each end of a small metal loop, one with a left-hand thread and the other with a right-hand thread. The tension can be adjusted by rotating the loop, which causes both eyelets to be screwed in or out simultaneously, without twisting the eyelets or attached cables.

UHF (Ultra-High Frequency). The 300MHz to 3GHz band of radio frequencies used for broadcast television among other things including Wi-Fi.

UHP (Ultra High Pressure). An acronym attributed to projector lamps with an internal pressure of over 3,000 lbs per square inch. Usually a mercury arc lamp. Also stands for Ultra High Performance.

UNC (Universal Naming Convention) A standard format for paths referring to locations directly accessible on a local area network

Underwriters Laboratories (UL) An independent product safety certification organization. Based in Northbrook, Illinois, UL develops standards and test procedures for products, materials, components, assemblies, tools and equipment, chiefly dealing with product safety.

Uniform Resource Identifier (URI) A compact string of characters used to identify or name a resource. The main purpose of this identification is to enable interaction with representations of the resource over a network using specific protocols.

Uniformity A measurement of the evenness of the brightness of white or a particular color across a display indicated as a percentage. A measurement of 80% means the brightness of an image is 20% less at its dimmest point compared to its brightest.

Unity Gain A projection screen with a gain rating of one that reflects light with a wide viewing angle back to the viewer. See Gain.

Upconvert To convert a lower resolution signal to a higher resolution. For example, 480i to 720p.

Upward Tilt Most mounts only have a downward tilt for a display. In many cases, the upward tilt may refer to a service tilt that tilts the mount upward to give access to AV connectors or power cables.

URL (Universal Resource Locator) A string of text that specifies the location of an object accessible through the Hypertext Transfer Protocol (HTTP), typically a World Wide Web address.

UXGA (Ultra Extended Graphics Array). Refers to a display resolution of 1600 pixels horizontally by 1200 pixels vertically, usually only required in specialist applications. UXGA has an aspect ratio of 4:3.

VBR (Variable Bit Rate). Refers to a variable data rate for encoding MPEG where picture quality is maintained but data rates change in accordance to the requirements of a video passage. Large amounts of movement and detail require higher data rates. VBR tends to create more space efficient MPEG files where picture quality is maintained but data rates change.

Vector Graphics These are programs which store images using computer algorithms to define shape, lines, animation etc.

Vectorscope A specialized oscilloscope used to display the color information in a video signal. In particular, a vectorscope decodes the color information into R - Y & B - Y. Those signals are used to drive the x and y axis of the scope. Total lack of color in a video signal is displayed as a dot in the center of the vectorscope display. The angle, distance around the circle, and magnitude, distance away from the center, indicates the phase and amplitude of the color signal.

Vertical Frequency The rate per second, measured in Hertz (Hz), that the monitor draws all the lines on an entire screen and the higher the frequency the less a flicker is produced.

Vertical Lens Shift The purpose of Lens Shift is to eliminate keystone and provide greater flexibility in the placement of the projector relative to the screen. Lens shift may be a manual adjustment or motorized depending on the projector. Vertical lens shift will typically allow the projector to be placed anywhere between 1.5 screen heights above or below the center of the projection screen and may also be used to geometrically align images when stacking projectors. Horizontal lens shift is also available on some projectors.

Vertical Offset The difference between the center of the projected image and the center of the projector lens. For clarity, offset is often expressed as the maximum amount of the image that can be projected above or below the lens center without degrading the image quality. Vertical offset ranges depend on the type of lens in use, and whether or not the image is offset horizontally at the same time.

VESA (Video Electronics Video Association). An international non-profit corporation led by a board of directors, which represents a voting membership of more than 165 corporate members worldwide. VESA supports and sets industry-wide interface standards for the PC, workstation and consumer electronics industries. The VESA mounting interface standard includes a pattern of mounting holes on the back of a flat-panel display which match up with patterns found on many flat-panel mounts. Mounting patterns are measured in millimeters and most common patterns are 75 x 75mm, 100 x 100mm, 200 x 100mm and 200 x 200mm. Mounting patterns beyond those listed have varied sizes and are spaced in 200mm increments.

VGA A display resolution measuring 640 horizontal pixels and 480 vertical pixels giving a total display resolution of 307,200 individual pixels. VGA has a 4:3 aspect ratio.

Video Bridge A computerized switching system, or MCU, which allows multipoint video conferencing.

Video Capture The method of capturing an analogue video source and converting it into a digital format.

Video Conferencing A form of communication in which a set of interactive telecommunication technologies allow two or more locations to interact via two-way video and audio transmissions simultaneously.

Video Mirroring An output connector on the projector that allows a monitor or another projector to share the same video source.

Video Wall Consists of multiple displays or monitors that are mounted closely together contiguously in order to form one large screen.

Viewing Angle Screens do not reflect equally in all directions. Most light is reflected in a conical volume centered around the "line of best viewing". Maximum brightness is perceived if you are within the viewing cone defined by the horizontal and vertical viewing angles.

VoD Server (Video on Demand). Refers to any streaming video server that can store and deliver video streams on request from end users.

Voice-Activated Switching (VAS) Usually the default mode in multiple sites where the personal currently speaking can be viewed by all participants. Noise in a site will cause the view to change.

Volt A measurement of electrical pressure.

Volume Leveling The automatic increasing or decreasing of volume during playback to produce a similar sound for all audio content.

VPN (Virtual Private Network). A service offered by public carriers whereby the user is given a network that appears to be private but which is actually carried over a public network.

VSAT (Very Small Aperture Terminal) VSATs are those little satellite dishes that you see used for PrimeStar and DirecTV among other things. In addition to tuning in satellite TV, they can be used to receive data such as IP multicasting. Many companies create a wide area computer networks (WAN) infrastructure.

WAN (Wide Area Network). A communications network that uses devices such as telephone lines, satellite dishes, or radio waves to span a larger geographic area than can be covered by a LAN.

Watt A unit of power. Volts multiplied by amperage equals watts. It is defined as one joule per second.

WAV This is a format for a digital audio sound file.

Web Server A server that stores and retrieves HTML document and other resources using HTTP.

Webcast The delivery of a live or recorded broadcast over the web.

Wedge Anchor Wedge anchors, also known as expansion bolts and expansion anchors, secure themselves using a mechanical wedging effect at the end of the fastener. Tightening the bolt results in a wedge being driven up against a sleeve. This jams the end of the bolt and provides the strength. Many different manufacturers provide a variation on this theme, usually depending on the condition of the concrete and the type of load.

Weight Capacity The maximum amount of weight that a mount can support. All of our mounts are tested at a minimum of four times the weight of the advertised weight capacity to ensure stability and safety.

White Level The signal level that corresponds to the maximum picture brightness. The white level is set by the contrast control.

Widescreen Any aspect ratio that is wider than 4:3. Widescreen televisions are 16 units wide and 9 units tall. Common widescreen film aspect ratios are 1.66:1, 1.85:1 and 2.35:1.

Wi-Fi (802.11a) An IEEE specification for wireless networking that operates in the 5 GHz frequency range (5.725 GHz to 5.850 GHz) with a maximum 54 Mbps data transfer rate. The 5 GHz frequency band is not as crowded as the 2.4 GHz frequency, because the 802.11a specification offers more radio channels than the 802.11b. These additional channels can help avoid radio and microwave interference.

Wi-Fi (802.11b) International standard for wireless networking that operates in the 2.4 GHz frequency range (2.4 GHz to 2.4835 GHz) and provides a throughput of up to 11 Mbps. This is a very commonly used frequency. Microwave ovens, cordless phones, medical and scientific equipment, as well as Bluetooth devices, all work within the 2.4 GHz frequency band.

Wi-Fi Wireless Fidelity, and is a type of wireless network used to connect digital devices without the need for cables. It is mostly used for wireless broadband access and inexpensive consumer wireless antennas are available at electronics stores. There are four specifications currently in the family: 802.11, 802.11a, 802.11b, and 802.11g.

Wire Gauge A measurement of how large a wire is, either in diameter or cross sectional area. This determines the amount of electric current a wire can safely carry, as well as its electrical resistance and weight per unit of length. Wire gauge is applicable to both electrical and non-electrical, structural wires.

Woofer A loudspeaker designed to reproduce bass, or low audio, frequencies.

WXGA (Wide Extended Graphics Array). Defines a class of XGA displays with a width resolution sufficient to create an aspect ratio of 16:9. A WXGA display has 1366 to 1280 pixels horizontally and 768 to 720 pixels vertically.

XGA (Extended Graphics Array). Display resolution measuring 1024 pixels horizontally and 768 pixels vertically giving a total display resolution of 786,432 individual pixels. XGA has a 4:3 aspect ratio.

XLR Balanced connection for audio components and used professionally.

XML (Extensible Markup Language) XML is a standard data format used for text files and information in computer memory that allows easy data processing and exchange between different applications.

XSL (Extensible Stylesheet Language) XSL was the original proposal to allow formatting of XML files for display. It has since diverged into XSL FO and XSLT. They each derive from XSL, but use different parser programs and achieve slightly different goals. XSL FO, which stands for XSL formatting objects, is most often used for outputting PDF files with extreme formatting and pagination control. XSLT, which stands for XSL transformations, is most often used to convert one XML data structure into another.

XSLT (Extensible Stylesheet Language Transformations) XSLT is a standard subset language of XML designed to allow one XML.

Yaw Taken from the aviation industry, the yaw refers to the rotation around the axis that will move the image on a screen left or right, while pitch refers to the axis of rotation that would move the image of a projector up and down on a screen. Roll refers to the axis of rotation that would rotate the image of a projector on a screen.

Y-Splitter A cable or adapter that enables a single output into two inputs or a single input into two outputs.

Zipcord Cable A flat cable looking like two cables glued together commonly used for audio applications.

Zoom Lens A lens with a variable focal length providing the ability to adjust the size of a projected image without moving the projector or provide a range of projector placements that can produce the same size image. See Zoom Ratio.

Zoom Ratio Zoom ratio is the ratio between the smallest and largest image a lens can project from a fixed distance. For example, a 1.4:1 zoom lens ratio means that a 10 foot image without zoom would be a 14 foot image with full zoom. Conversely, a 10 foot diagonal image at 15 feet with no zoom would still be a 10 image at 21 feet at maximum zoom (15 x 1.4 = 21 feet). A zoom lens is "not as bright" as a fixed lens, and the higher the ratio, the less light output.



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